Notice for specifications

I.U. = Indoor Unit O.U. = Outdoor Unit Qu = Quiet ＊ = Not decided yet

- Specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorised dealer.
- Cooling/Heating capacities are based on the following conditions.

Cooling	Indoor temp. : 27°C DB/19°C WB Outdoor temp.: 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB Outdoor temp.: 7°C DB/6°C WB

- Performance test is in accordance with EN14511
- Seasonal efficiency test is on accordance with EN14825
- Sound power test is in accordance with EN12102

Fujitsu General (Thailand) Co., Ltd.

TÜV ISO 9001 01 100 075229 ISO 14001 01 104 9245

ISO 9001 Certified number: 01 100 075229
ISO 14001 Certified number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.

TÜV CERT DIN EN ISO 9001 Certificate: 01 100 79269

ISO 14001 BUREAU VERITAS Certification

ISO 9001 Certified number:	ISO 14001 Certified number:
01 100 79269	CNBJ312244-UK

Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

ISO 9001 Certified number:	ISO 14001 Certified number:
15917Q20073R5M	15918E20021R5M

- The products or equipments in this catalogue contain fluorinated greenhouse gases.
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Distributed by:

FUJITSU GENERAL LIMITED
3-3-17, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan
www.fujitsu-general.com

AIR CONDITIONERS LINEUP PRODUCT CATALOGUE 2020

FUJITSU GENERAL LIMITED

PRODUCT CATALOGUE 2020

AIR CONDITIONERS LINEUP

OUR MESSAGE
SOLUTIONS
SPLIT
MULTI-SPLIT
VRF
VENTILATION
CONTROL SYSTEM & OPTIONAL PARTS
AIR TO WATER
SUPPORT

FUJITSU GENERAL LIMITED

FUJITSU GENERAL Way

Our Mission

Living together for our future

Through innovation and technology, we deliver a brighter future with the peace of mind to our customers and societies around the world.

Our Philosophy

Act Spontaneously
We embrace new challenges by investing in ourselves for personal growth, and through continuous creativity with a spontaneous attitude.

Develop Our Team
We respect and value our people, and optimize their abilities through fostering culture and diversity, and utilizing a collaborative effort focused on communication.

Value Integrity
To achieve our goals, we always act with integrity and shared ethics.

CONTENTS

OUR MESSAGE

for Comfort

for Control

Innovation & Globalization

for Future

for Design

We create the comfort for the people all over the world by made-in-Japan quality and innovative manufacturing.

- History
- World Wide Locations
- Global Business Activities
- Project Reference
- Global Development & Production Bases
- High Quality Development & Production Facilities

Future

Green Aspect for Refrigerant

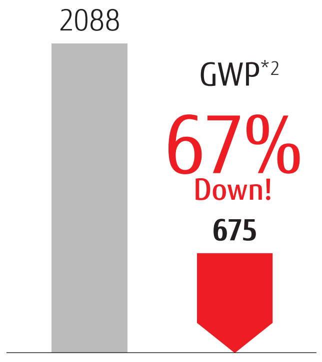
We provide reliable technologies approved and cultivated in the European market where environmentally friendly regulations are very strict. We are working on making environmentally friendly products we can be proud of in the future in our research, development and manufacturing processes.

New refrigerant R32 for the reduction of the global warming potential.

- The ozone-depleting potential (ODP[*1]) is 0!
- Environmental properties
- Performance
- Economic efficiency

[*1] **ODP (Ozone-Depleting Potential):** This is the relative value indicating the impact of ozone-depleting substances per unit weight if they are emitted into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is considered to be 1.0.

[*2] **GWP (Global-Warming Potential):** This is the number that indicates the global warming capability of other greenhouse gases with reference to carbon dioxide as the standard. This is the estimated integration value, which is indicated as a ratio to CO2, of the radiant energy given to the earth (i.e., impact on global warming).



(Reference to IPCC 4th Report)

Our Pioneering Efforts Make Green Future

Approach to new energy efficiency standard Fujitsu General following the EU climate action plan 20/20/20 by 2020.

20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electricity

20% Less CO_2 Emissions

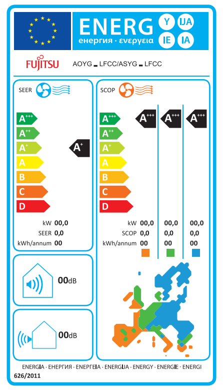
Fujitsu General products sharply following the F-gas regulation 517/2014

20% Share of Renewable Energy

Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

New Energy Labelling Requirement 626/2011/EU

Our Air Conditioners have reached the **"Class A"** ranking, the highest energy efficiency level that is now shown on energy labels in Europe.



	SEER (Cooling mode)	SCOP (Heating mode)
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E	3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F	2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

Less is more

Space
Noise
Refrigerant

VRF System outdoor units AIRSTAGE J-IVL

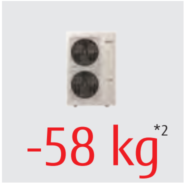
Less Space

Installation Flexibility

The top class compact dimensions of outdoor units from 8 to 18 HP capacity, keeping the building appearance as it is by improvement on the installation flexibility.

Installation Space

Weight (18HP model)



Less Refrigerant

Design with small refrigerant

Significantly reduce the system refrigerant volume by new small indoor unit, piping design and optimized heat exchanger volume design.

System Refrigerant Volume

The minimized refrigerant volume may allow the application to prevent the installation of a refrigerant leak detector required under EN 378.

Less Noise

Top Class Low Operating Sound

Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

Sound Power Level (8HP model)

[*1]: J-IV models is compared with V Series outdoor unit 14/16/18 HP models. [*2]: J-IV 18 HP model is compared with V-IV 18 HP models. [*3]: Ex) In the case of 30 indoor units connection in 1 system (Outdoor unit: 12 HP, Indoor unit: 1 kW ×30, Total piping length: 277.5 m) • J-IV model is compared with current models. [*4]: J-IVL 8 HP model is compared with V Series outdoor unit 8 HP model.

Comfort

Comfortable Airflow Design

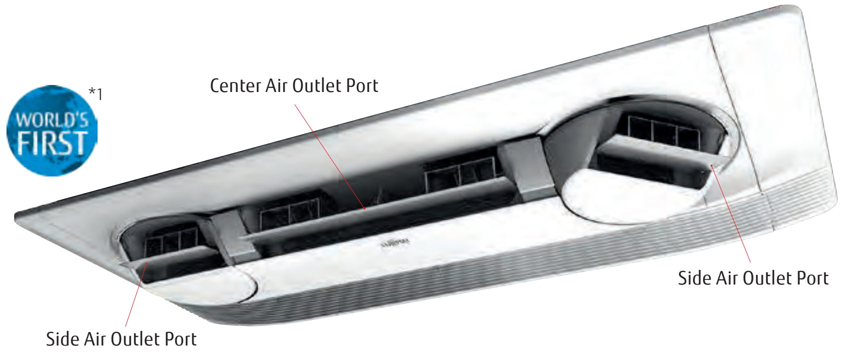
Fujitsu General has developed and commercialized numerous world-first technologies with a commitment to real comfort. This concept also applies to our designs. We will continue to pursue the possibilities of air conditioners and provide new comfort in the future.

3D Flow Cassette

3 Air Outlet Ports can be controlled individually

Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

WORLD'S FIRST *1



Cassette Circular Flow

Unique Circular Flow design

Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, turbo fan and unique seamless airflow louver design.

KX Series

Wall Mounted

Comfortable airflow control to prevent the body from being exposed to airflow

The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.

WORLD'S FIRST *2

DUAL BLASTER

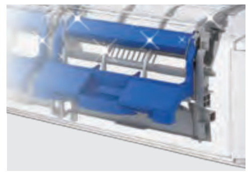
nocria X

WORLD'S FIRST *1, *2, *3, *4, *5

Comfort by Design with Advanced Technology

Lambda Heat Exchanger*3

Power Diffuser*4



Filter Auto Clean*5

The Dual Side Fans*2

3 Air Outlet Ports*1

The Dual Side Fans equipped to our flagship "nocria X" model optimally control the airflow. Their distinctive form delivers comfortable airflow to the corners of room. The Power Diffuser opens the lower flap of the main unit to blow warm air downward. This heats up rooms from the floor to increase heating efficiency. Lambda Heat Exchanger improves the operating efficiency and expands the possibilities of design, such as compactness of indoor units. Moreover, we have developed the automatic cleaning of filters for the first time to ensure maintenance and operating efficiency.
The airflow control system of "nocria X" is also applied to cassette type. 3 airflows create comfortable space.
Fujitsu General is developing unique technologies to provide pleasant spaces.

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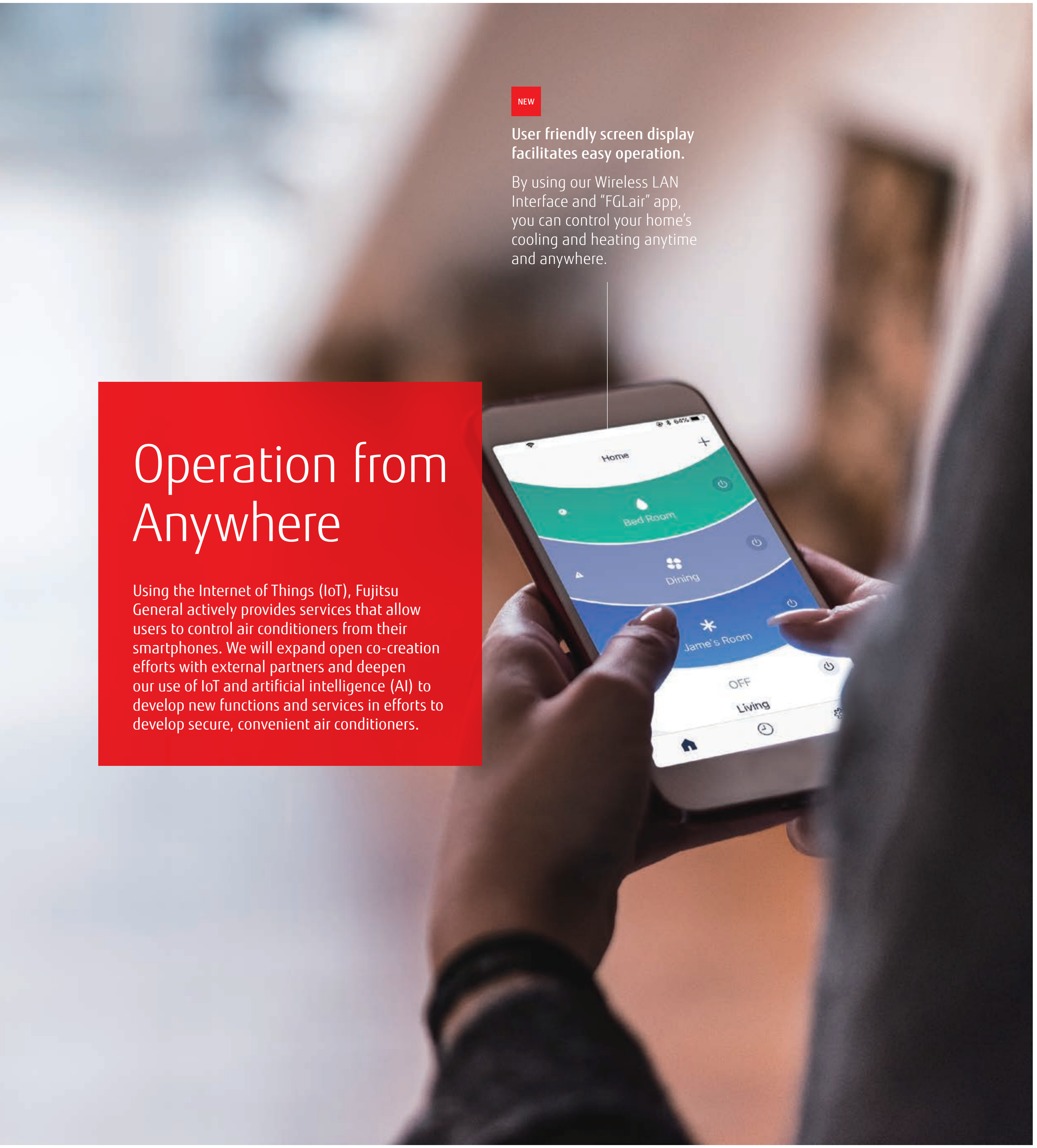
*1: Announced 2018. In room air conditioner for the home (our company's investigation) *2: Announced 2012. In room air conditioner for the home (our company's investigation) *3: Announced 1994. In room air conditioner for the home (our company's investigation) *4: Announced 1991. In room air conditioner for the home (our company's investigation) *5: Announced 2002. In room air conditioner for the home (our company's investigation)

Control



NEW

User friendly screen display facilitates easy operation.

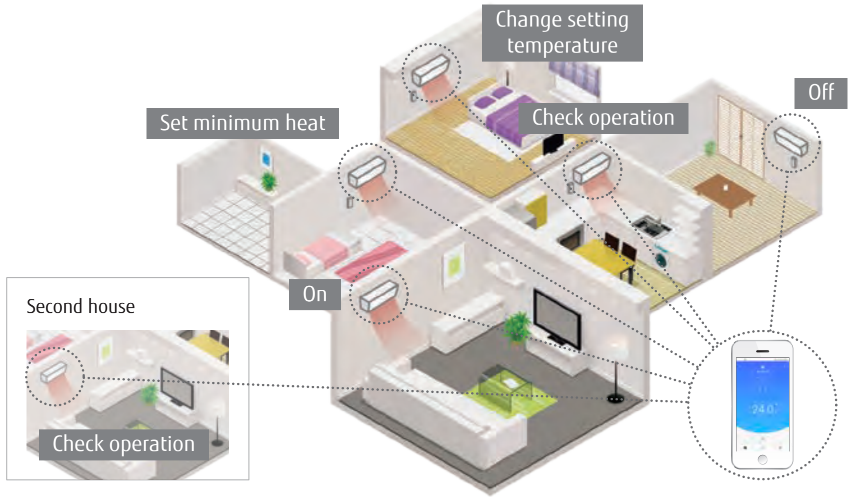
By using our Wireless LAN Interface and "FGLair" app, you can control your home's cooling and heating anytime and anywhere.

Operation from Anywhere

Using the Internet of Things (IoT), Fujitsu General actively provides services that allow users to control air conditioners from their smartphones. We will expand open co-creation efforts with external partners and deepen our use of IoT and artificial intelligence (AI) to develop new functions and services in efforts to develop secure, convenient air conditioners.

If you forget to turn off your system before you left your home - no problem!

"FGLair" is an application software that enables you to operate the Fujitsu General's air conditioner(s) with a mobile device from anywhere out of your home or when you are on travelling.



Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

+

FGLair

Download Free

Download on the App Store | Google play

New Compact Wired Remote Controller

Large screen and simple display

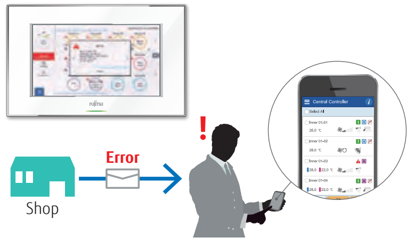
- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

Central Remote Controller for VRF

Central Remote Controller allows many menus to display on the top screen by adopting touch panel screen. Necessary window pops up only by touching the menu you want to operate. More intuitive operation can be performed.

Remote monitoring/
Remote operation

New central remote controller can control your tenant's air conditioner anytime and anywhere.



Design

Beautiful Space Design

Fujitsu General provides the well-designed model with special texture for Europe, the design-award-winning product suitable for the room interiors, and the various designed Cassette type matched to office space. We also have the lineup with elegant design models such as the Ceiling model with beautiful curved surface.

NEW KE Series

Wall Mounted

KE Designer Series

What we aim is a well-designed air conditioner especially for Europe. It is different from Japanese one harmonized with its surroundings and it appeals comfortable elegant feeling in the room. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere.

CMF: Color Material Finish

The texture of the front panel expresses craftmanship existing in Europe.The texture changes the expression by the changing light of the day.

Design Award winning products

Wall Mounted, Design models

NEW

Light Elegant Design

New Design Ceiling

Light-elegant and three-dimensional expression composed of curved surface gives comfort and wellbeing.

Various Cassette Design

This fits grid ceiling system.
Compact Cassette
Grid type

Beautiful designs from all angles.
Cassette Circular Flow
White color panel

For ambiences with dim lightings.
Cassette Circular Flow
Black color panel

History

1936 Established as Yaou Shouten Ltd.

Overseas Air Conditioning Business since 1971

1960: Air conditioning business starts. Japan-domestic business starts.

1950 ~

1971 Air conditioner exports to Middle East.

1977 "Super Power, Super Quiet" Series

1982 Window type 3 Super Series AL/AX Series

1985 Large wall mounted and multi air conditioner introduced.

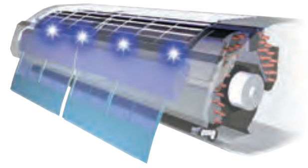
WORLD'S FIRST *1,*2 **1991** Air conditioner with the world's first lambda heat exchanger

1994 Air conditioner with the world's first power diffuser

1970 ~

2001 AIRSTAGE™ Series is released. VRF air conditioners for large-sized buildings.

WORLD'S FIRST *3 **2002** Air conditioner with the world's first automatic self-cleaning filter system



2000 ~

2004 Standalone type small VRF AIRSTAGE™ J Series is released.

2006 VRF Heat Pump type Max. 42 HP AIRSTAGE™ V Series is released.

2009 Heat Pump Modular type Max. 48 HP AIRSTAGE™ V-II Series is released.

2009 Air to Water system is released.

2010 ~

For Light Commercial

2011 High energy saving type AIRSTAGE™ J-II Series is released.

2014 Small & lightweight outdoor unit AIRSTAGE™ J-IIS that has improved easy installation with a single fan

2016 Small VRF AIRSTAGE™ J-III that has advanced energy saving and easy installation is released.

2017-19 Small VRF AIRSTAGE™ J-IIIL suitable for diverse light commercial properties is released.

WORLD'S FIRST *4

2019
New cassette style released.
3D Flow Cassette

For Commercial

2012 Heat Recovery Modular type AIRSTAGE™ VR-II Max. 48 HP is released.

2014-15 Heat Pump Modular type AIRSTAGE™ V-III Max. 54 HP ideal for large properties is released

For Residential

2011 Hi-spec Design models LT Series & LU Series is released.

2017 Flagship Wall Mounted models nocria™ X is released.

2017-19 Environment-friendly new refrigerant R32 models are added. (Split & Multi-split type)

WORLD'S FIRST *5

2020 New Topic

For Light Commercial

Small & lightweight outdoor unit AIRSTAGE™ J-IVL, J-IV, J-IVS outdoor units released.

AIRSTAGE™
Air Handling unit released.

For Commercial

Heat Recovery Modular type AIRSTAGE™ VR-IV Max. 48 HP is released.

For Residential

Split Design models KE Designer Series, New Ceiling and Air to Water Comfort Series released.

Manufacturing Company Establishment

1955 Headquarters in Kawasaki

1964 Electronic components factory in Ichinoseki

1977 Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office.)

1991 Air conditioner manufacturing company in Thailand.

1994 Air conditioner manufacturing company in Shanghai, China.

1998 Air conditioner motor manufacturing company in Thailand.

2006 VRF air conditioner manufacturer, sale, and service company in China.

2007 Air conditioner technology building completed on Main Office group. Air conditioner R&D Center in Kawasaki

2009 Operation of compressor factory begins in Thailand.

2012 Joint venture in Thailand to manufacture compressors

2016 Commercial use air conditioner R&D Center in Thailand

2019 Construction of new building to strengthen development capabilities at Kawasaki head office:

Base to create new value by combining internal and external knowledge

2020 Construction of Manufacturing That Utilizes the IoT:

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information.

New Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2

Fujitsu General
(U.K.) Co., Ltd. (U.K.)

Fujitsu General
(EURO) GmbH

Sales & Service Maintenance Company Establishment

1976 North America sales company

1977 Europe sales company (UK)

1978 Australia sales company / Europe sales company (Germany)

1980 Brazil sales company

1997 Asia sales company (Singapore)

1998 Middle East sales company (UAE) / New Zealand sales company

2000 Air conditioner manufacturing and sale technical partnership in India

2002 Taiwan sales company

2006 China sales company

2016 THE AIRSTAGE on Broadway in New York

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*1: Announced 1991. In room air conditioner for the home (our company's investigation) *2: Announced 1994. In room air conditioner for the home (our company's investigation)
*3: Announced 2002. In room air conditioner for the home (our company's investigation)

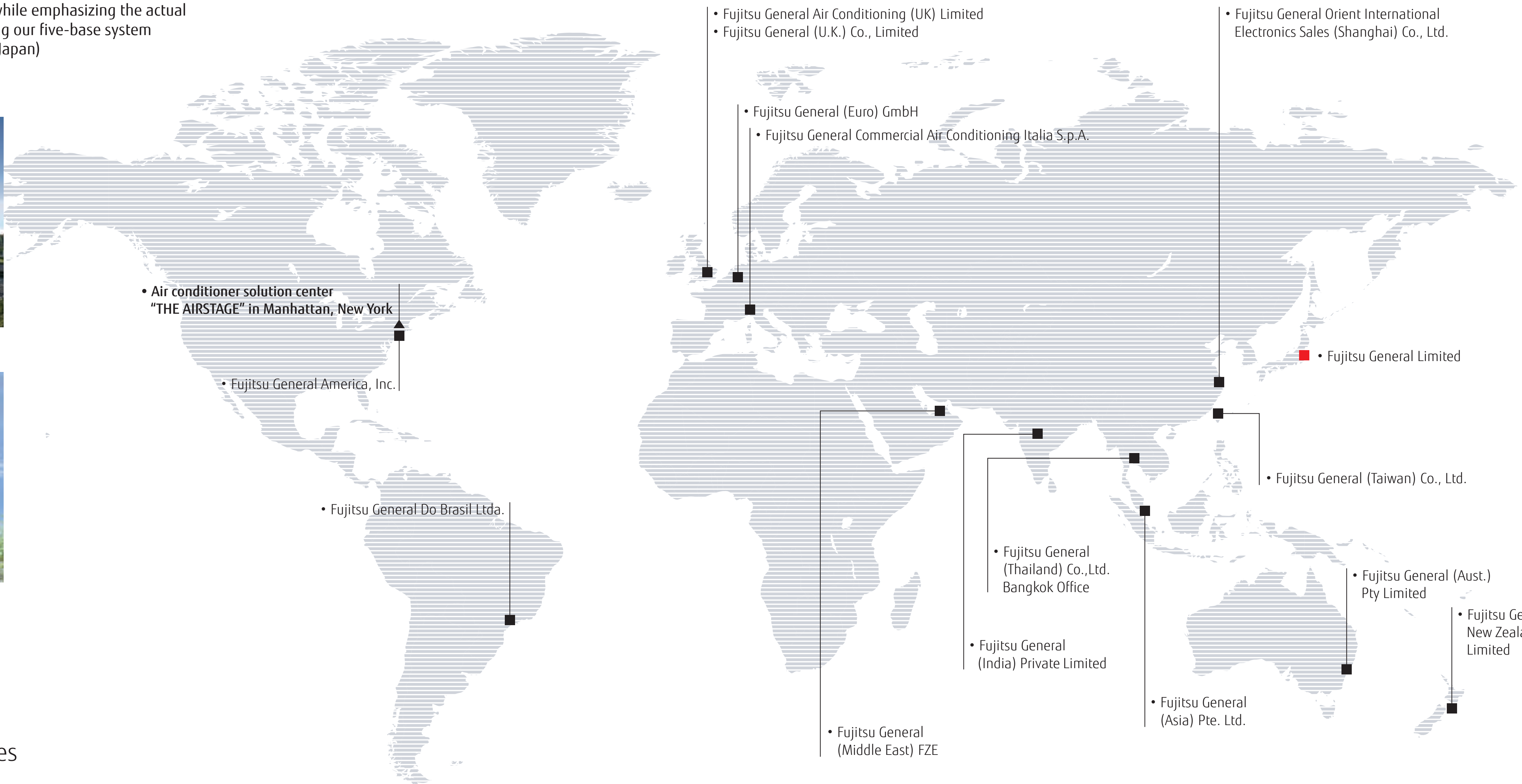
*4: Announced 2018. In room air conditioner for the home (Our company's investigation) *5: Announced 2012. In room air conditioner for the home (Our company's investigation)

World Wide Locations

Promoting Globalization from a global perspective while emphasizing the actual local situation in the field under the aim of advancing our five-base system (Europe, Middle East, Asia & Oceania, America, and Japan)

JAPAN Head Office

New Technology Research Building (Japan)



15 Overseas Sales Companies

Fujitsu General Orient International Electronics Sales (Shanghai) Co., Ltd. (China)

Fujitsu General (Taiwan) Co., Ltd. (Taiwan)

Fujitsu General (Thailand) Co.,Ltd. Bangkok Office (Thailand)

Fujitsu General (Asia) PTE. Ltd. (Singapore)

Fujitsu General (EURO) GmbH (Germany)

Fujitsu General (U.K.) Co., Ltd. (U.K.)

Fujitsu General Air Conditioning (UK) Limited (U.K.)

Fujitsu General Commercial Air Conditioning Italia S.p.A. (Italy)

Fujitsu General (Aust.) Pty Ltd. (Australia)

Fujitsu General New Zealand Ltd. (New Zealand)

Fujitsu General (Middle East) FZE (U.A.E.)

Fujitsu General Do Brasil Ltda.(Brasil)

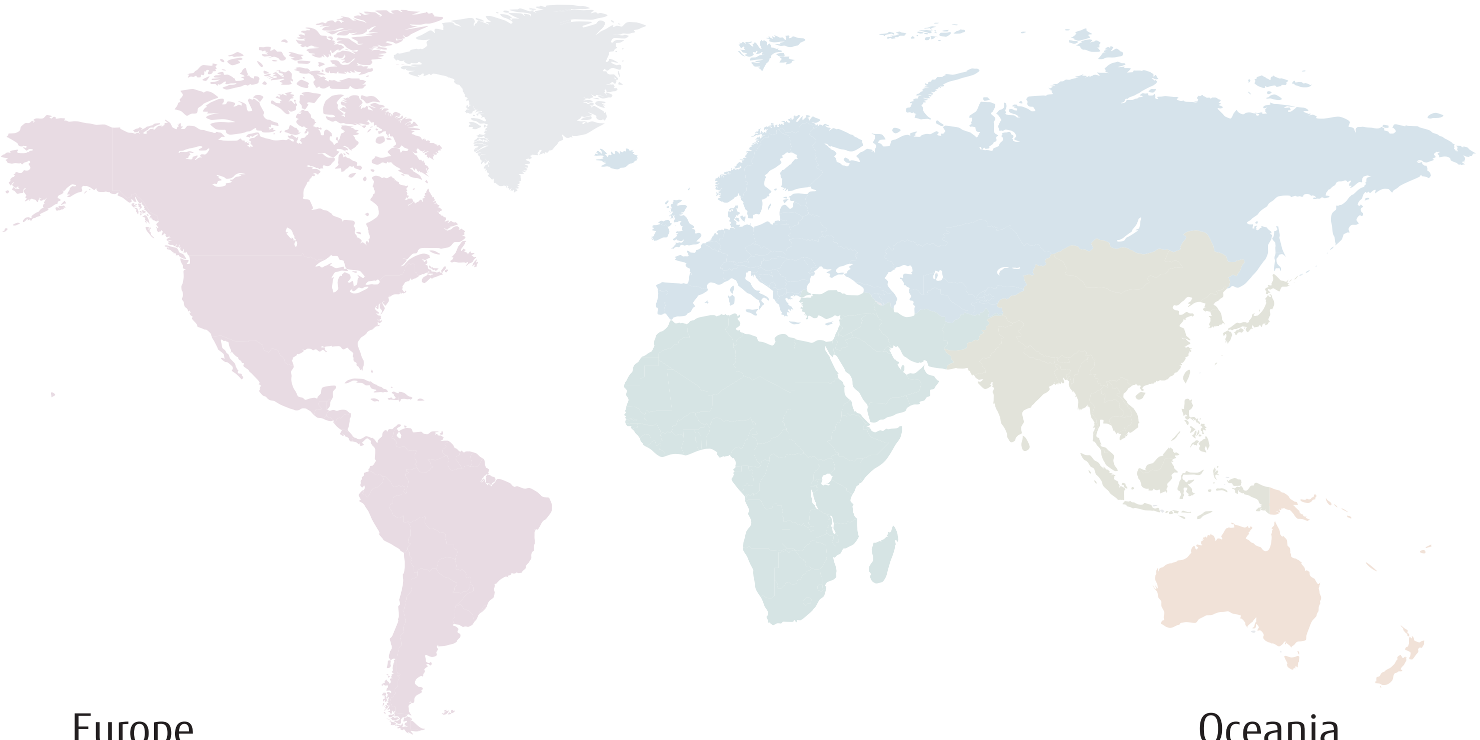
Fujitsu General (India) Private Limited

Fujitsu General America, Inc. (U.S.A.)

FUJITSU GENERAL SOLUTION CENTER "THE AIRSTAGE" (U.S.A.)

Global Business Activities

We are engaging in advertising, human resource development, CS activities, and social contribution activities worldwide.
These activities have been recognized throughout different regions by the awards we have been honored with.



North/South America

AHR Expo

HVAC trade show in Brasil

Distributor meeting

Call center

Middle East

Exhibition

Dealer Convention in Kuwait

Technical seminar

Training for dealers

Europe

HVAC trade show in Europe countries

HVAC trade show in Europe countries

ACR Show

Presentation & training

Oceania

HVAC trade show in Australia

Charity (Christchurch)

Service & Maintenance

Asia

New Product Presentation Meeting

Dealer Convention in Thailand

Training

Call center

International authoritative design awards

“Dealer Design Awards” of “the NEWS”

Gold Award (Category: HVAC & PLUMBING) in Reader's Choice Awards

TOP OF MIND 2016” First prize in “MARCA DE EQUIPAMENTODE AR-CONDICIONADO” category of “CLIMATIZACAO” division

Super brand is the world's largest independent arbiter of branding

The iF Product Design Award is given each year by “iF International Forum Design GmbH” for industrial products from around the world.

reddot award 2019 winner

The product design competition has existed since 1955. Its award, the “red dot”, is an internationally recognized quality seal.

Coolworld Industry Awards "Most Efficient Air Conditioner"

Canstar Blue Most Satisfied Customers Award

China State Construction Engineering Luban Prize

GOOD DESIGN

The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

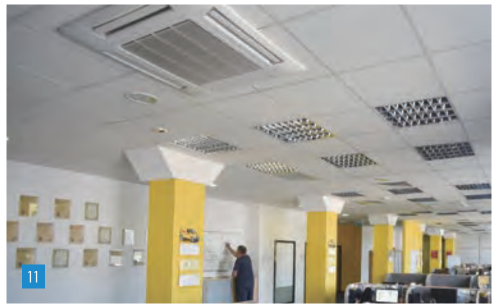
Project Reference

For Light Commercial

- 1 Shop in Europe
- 2 Shop in Europe
- 3 Museum in Europe
- 4 Restaurant in Middle East
- 5 School in U.S.A.
- 6 Hotel in Oceania
- 7 Hospital in Asia
- 8 Shop in Asia
- 9 School in Asia

Our product is popular because of its high quality, energy saving, and easy installation, and so has been installed in a wide range of building types including high-rise office buildings, stores, hotels, public facilities, schools, hospitals and residential.

Fujitsu General's Products have been installed in over 50 countries worldwide.



For Commercial

- 10 Office in Europe
- 11 Office in Europe
- 12 Office in Europe
- 13 Office in Asia
- 14 Hospital in Asia
- 15 Hotel in Asia
- 16 Hotel in Asia

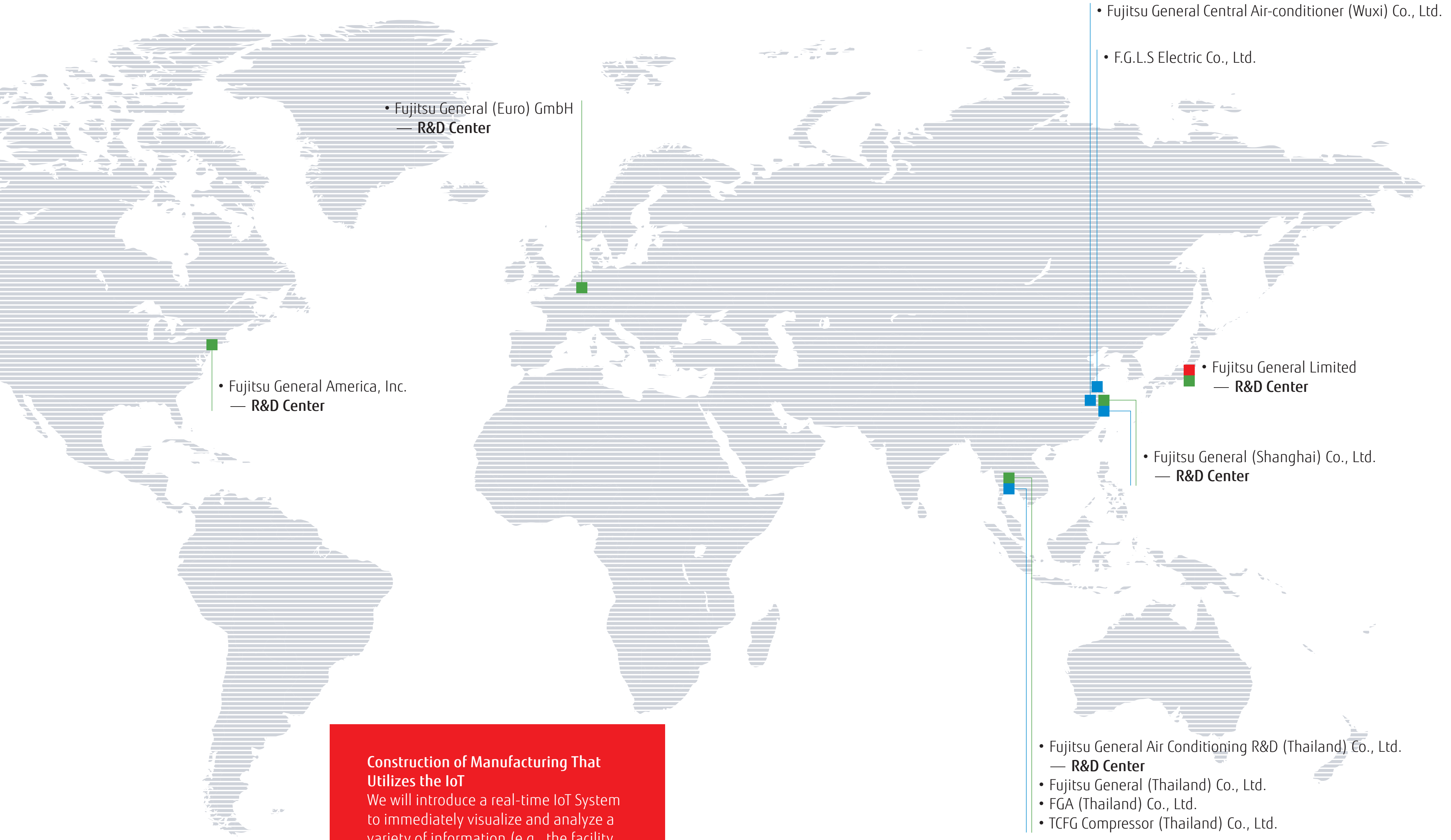
For Residential

- 17 Residential in Europe
- 18 Residential in Europe
- 19 Residential in Oceania
- 20 Residential in Middle East

Global Development
& Production Bases

R&D centers are set up in five countries of Japan, Europe, Asia, China and North America in the world. We pursue the environmental property and comfort to meet each area needs.

- 🟥 • Head Office
- 🟩 • R&D Center
- 🟦 • Manufacturing Companies



R&D Center & Technology Research Building


R&D Center in Fujitsu General (EURO) GmbH (Germany)

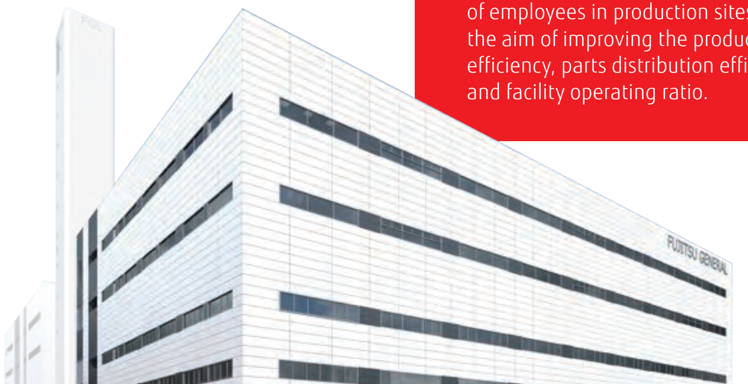

R&D Center in Fujitsu General America (U.S.A.)


Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)


R&D Center in Fujitsu General (Shanghai)


JAPAN Head Office, R&D Center and 60 m Height Difference Testing Tower (Japan)

Technology Research Building
in Japan Head Office



Construction of Manufacturing That Utilizes the IoT

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information (e.g., the facility operating situation, production progress on assembly lines, and the inventory and transportation situation of parts). This will enhance the accuracy of production and shipping forecasts in the Head Office and Factory Management Department. In addition, we will also utilize this in the improvement activities of employees in production sites with the aim of improving the productivity efficiency, parts distribution efficiency and facility operating ratio.

Overseas Manufacturing Companies


Fujitsu General (Shanghai) Co., Ltd. (China)


F.G.L.S. Electric Co., Ltd. (China)


Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd. (China)


New Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2


Fujitsu General (Thailand) Co., Ltd. (Thailand)


FGA (Thailand) Co., Ltd. (Thailand)


Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)


TCFG Compressor (Thailand) Co.,Ltd. (Thailand)

High Quality Development
& Production Facilities

Advanced Research Facility and Equipment

Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

Performance Testing

Air Volume Measurement Room
Measure air volumes of the air conditioners from compact room air conditioner models to VRF.

Calorimeter
Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner.

Silent Room
Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

Reliability Testing

Constant Temperature Room
Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.

Practical Test Room
Check on whether the air conditioners performance under the actual house conditions is sustainable.

Shower Test Room
Check on whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

Transportation & Handling

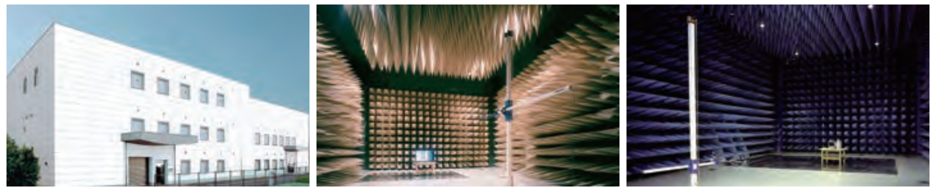
Compressibility testing

Vibration testing

Technology Research Building
in Japan Head Office

Testing Laboratory

Fujitsu General EMC Laboratory Limited



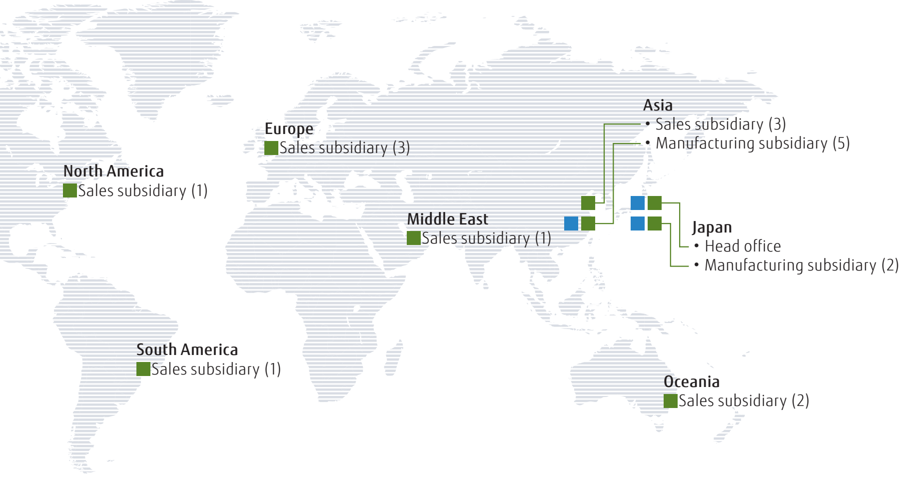
60 m Height Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability

Acquisition of ISO 9001 and ISO 14001

🟦 ISO 9001
🟩 ISO 14001
( ) Number of companies

Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually.
In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.



High Product Quality Assurance

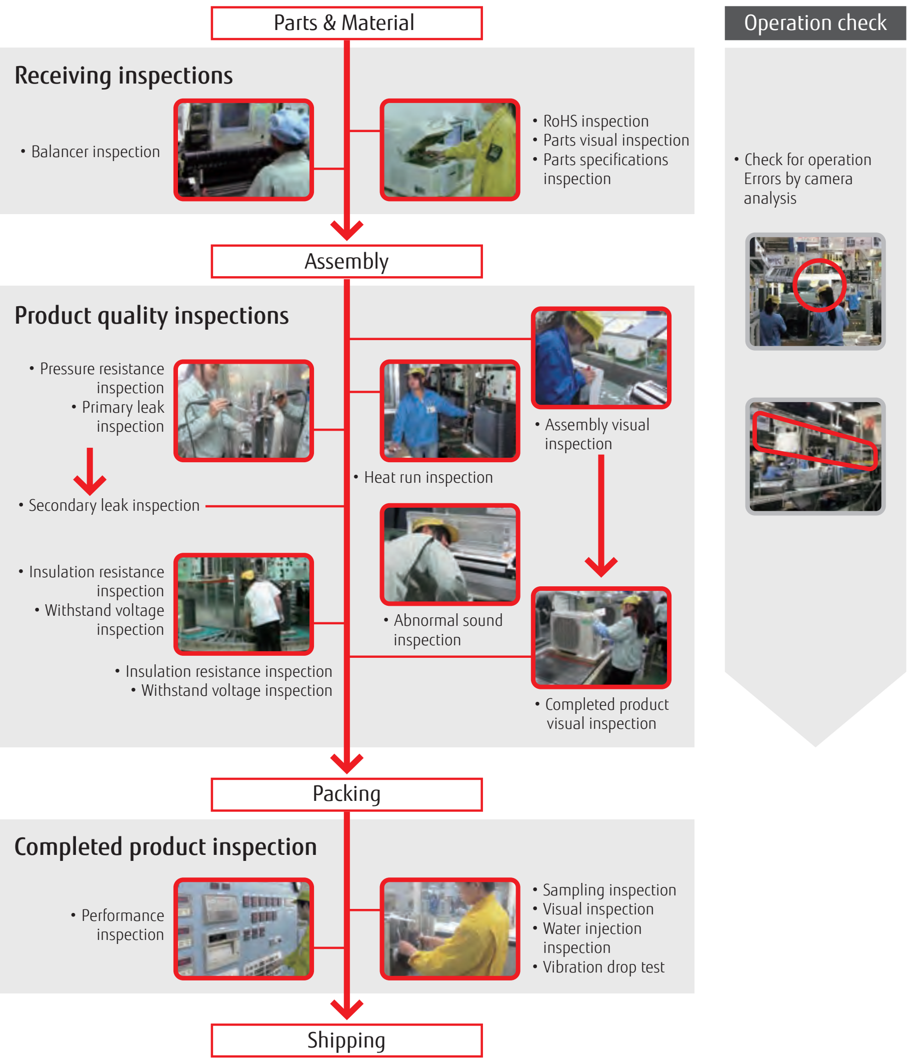
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by special test department in-house. Total number inspection is performed especially on main parts to remove defectives.

Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.



2020 New Products

SPLIT

Wall Mounted

Designer Series
Cool Beauty Design

S-020

KE Series

- 7/9/12/14 class 4 models, 2 colors
- New compact design chassis
- High energy efficiency
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume

Wall Mounted

Standard Series
High Efficiency & Large Room

S-026

KM Series

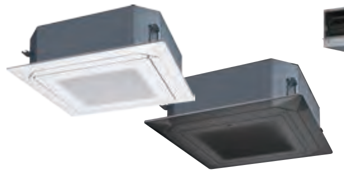
- 18/24 class 2 models
- High energy efficiency
- Compact and lightweight outdoor unit
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume

3 Phase models

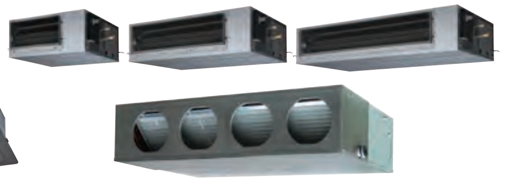
Cassette, Medium Static Pressure Duct,
High Static Pressure Duct,

S-048, 060, 064, 068

- Newly added 3 phase models
- Meets the various needs for shops and offices



Circular Flow Cassette



Medium Static Pressure Duct

High Static Pressure Duct

Ceiling

Light Elegant Design
New Design Ceiling

S-078

- 18/22/24/30/36/45/54 class 9 models
- Light Elegant Design
- Flexible & Easy installation design
- Easy maintenance

18/22 class

24/30 class

36/45/54 class
(Single Phase / 3 Phase)

MULTI-SPLIT

2-unit to 5-unit Multi-split type Indoor units

S-114

KM Series
- 4 models
- Capacity range from 2.0 kW to 4.0 kW class

KE Series
- 8 models, 2 colors
- Capacity range from 2.0 kW to 4.0 kW class

KM Series

KE Series

Simultaneous Multi-split type Twin/Triple

S-108

- 4/5/6 HP, Single & 3 phase, 6 models
- Slim & Compact design outdoor unit
- Flexible installation

Twin 36 class

Twin/Triple 45/54 class

VRF

REFRIGERANT R410A

AIRSTAGE J-IVL

Outdoor Unit 8 - 18 HP model

V-022~

- Slim & compact design
- Top class low noise
- Up to 42 indoor units can be connected
- Design with small refrigerant volume
- Intelligent refrigerant control

8/10/12 HP

14/16/18 HP

AIRSTAGE J-IV

Outdoor Unit 4/5/6 HP model, Single & 3 Phase

V-028~

- Slim & compact design
- Top class low noise
- Up to 14 indoor units can be connected (6 HP)
- Intelligent refrigerant control

AIRSTAGE J-IVS

Outdoor Unit 4/5/6 HP model

V-032~

- Height 998 mm Compact & light weight design
- Low sound level design
- Up to 13 indoor units can be connected (5/6 HP)
- Intelligent refrigerant control

AIRSTAGE VR-IV

Outdoor Unit 8 - 48 HP model

V-036~

- Smart and cutting-edge design.
- Top class low noise
- Up to 64 indoor units can be connected
- Simultaneous cooling and heating operation using 1 refrigerant system
- Intelligent refrigerant control

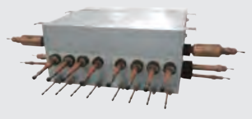
8/10/12 HP

14/16 HP

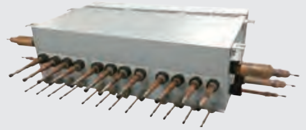
RB unit Multi-split type for Heat recovery (8-branch / 12-branch)

V-039, C-057

- Flexible piping connection
- Flexible installation
- Easy to maintenance in a narrow space



8-branch



12-branch

VENTILATION

Air Handling Unit

Vn-008~

- Full comfort
- Easy design and installation
- Total solution concept

Air Handling Unit Controller

Vn-032

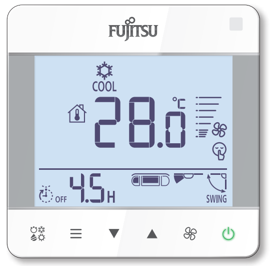
- Easy to install. Control connects to AHU programmable logic controller.
- Able to install the control after building decoration.
- Mode lock function: user can lock the running mode of Air Handling Unit.

CONTROL SYSTEM

Compact Wired Remote Controller

C-011

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand



FGLair

Mobile Application

C-003

When you add our Wireless Interface and "FGLair" app, you can control your home's cooling and heating anytime and anywhere!

- Simple design and user friendly interface

AIR TO WATER

REFRIGERANT R32

WATERSTAGE

Split type & Split DHW Integrated type Comfort Series

W-012, 020

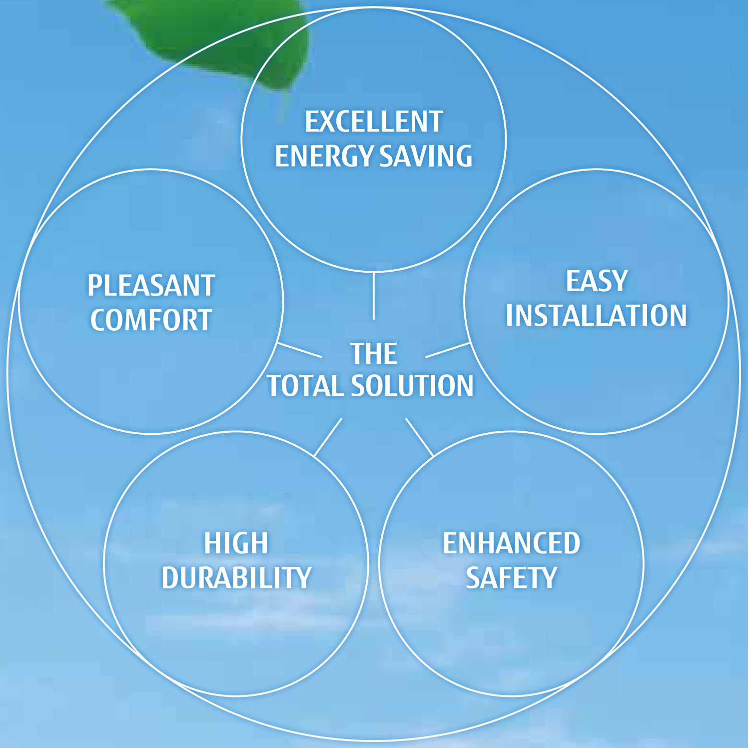
- 5/6/8 kW class 3 models outdoor units, 4 models Hydraulic indoor units
- Advanced heating capability at low outside temperature
- Enhanced anti-freezing functions in cold areas
- Compact & Quiet design against the noise when being operated at night

5/6 kW

8 kW

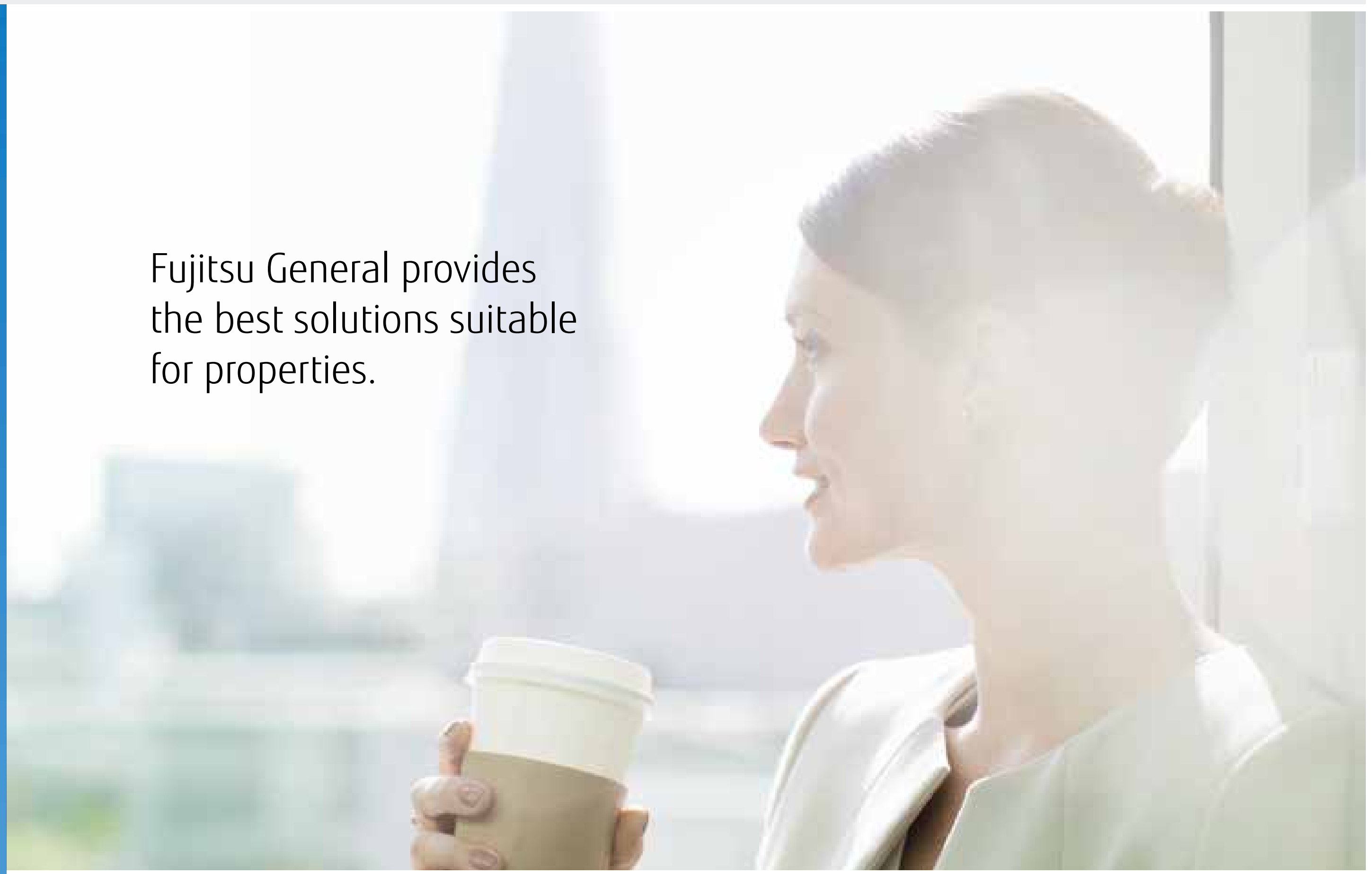
From Business to Private Spaces

SOLUTIONS



Solution Point

We provide Fujitsu General total solutions for the property unique needs.



Fujitsu General provides
the best solutions suitable
for properties.

Target Properties

A casual conversation with a colleague at work

A presentation in a large meeting room

A restaurant you dropped by when going out Your regular living room

We have a lineup of air conditioners ideal for all these situations – from business to private spaces.
The air conditioners of Fujitsu General can be found in various settings of life.

For Light Commercial

We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.

032 Shops, Restaurant
034 Small Office
036 Hotels
038 School

For Commercial

We provide single and modular type VRF systems designed for high efficiency, comfort, freedom of design, easy installation and high reliability.

040 Large Building

For Residential

We provide smart air conditioning systems with a wide range of control options for comfortable control and convenient use.

042 Residence

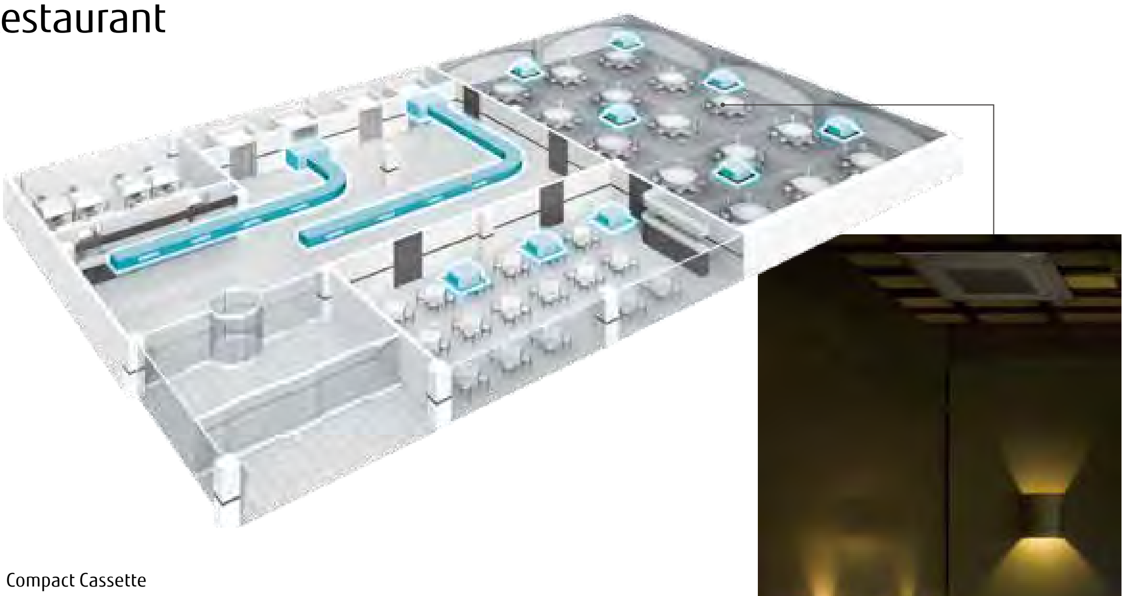
Restaurant, Shops

For Light Commercial

Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.

Single Split

For Restaurant



Circular Flow Cassette Series

Compact Cassette

NEW Ceiling

Circular Flow Cassette Series
For ambiences with dim lightings

For bright Interior rooms etc.

R32 large models lineup expanded

The lineup of new celing type, cassette type and duct type suitable for large spaces has been expanded by adding models that use the environmentally-friendly new refrigerant R32.

Mini Duct

Slim Duct

Medium Static Pressure Duct

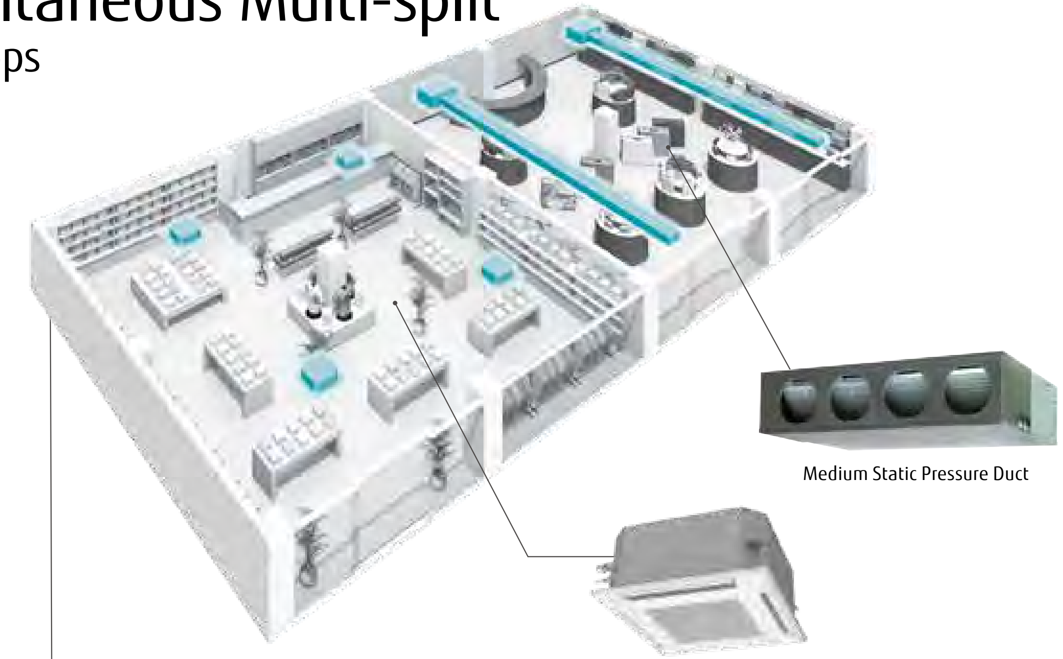
High Static Pressure Duct

Color variations by two panels

Both black and white panels are available for Cassette type. Black panel is suitable for the dark place such as a restaurant with atmosphere. White panel is usually used at bright areas such as offices. (Available to single split and VRF indoor units)

Simultaneous Multi-split

For Shops

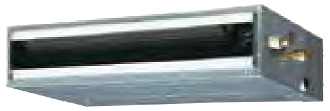


Twin 36 class
(Single phase)

Twin/Triple 45/54 class
(Single phase)

Various indoor unit lineup

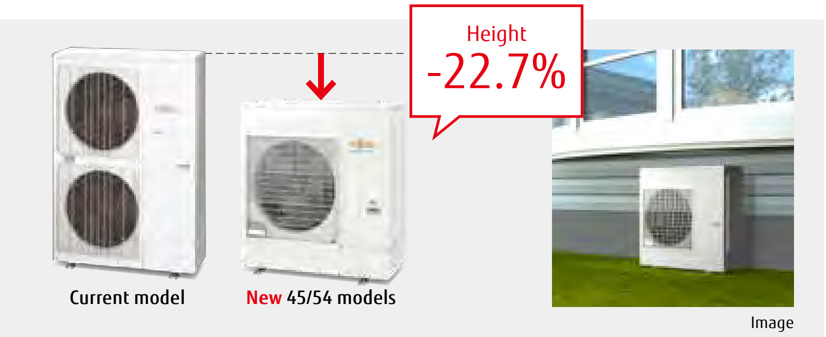
We provide 3 types of indoor units. You can select them to suit the atmosphere and layout of your shop.



Slim Duct

Small and light weight outdoor unit

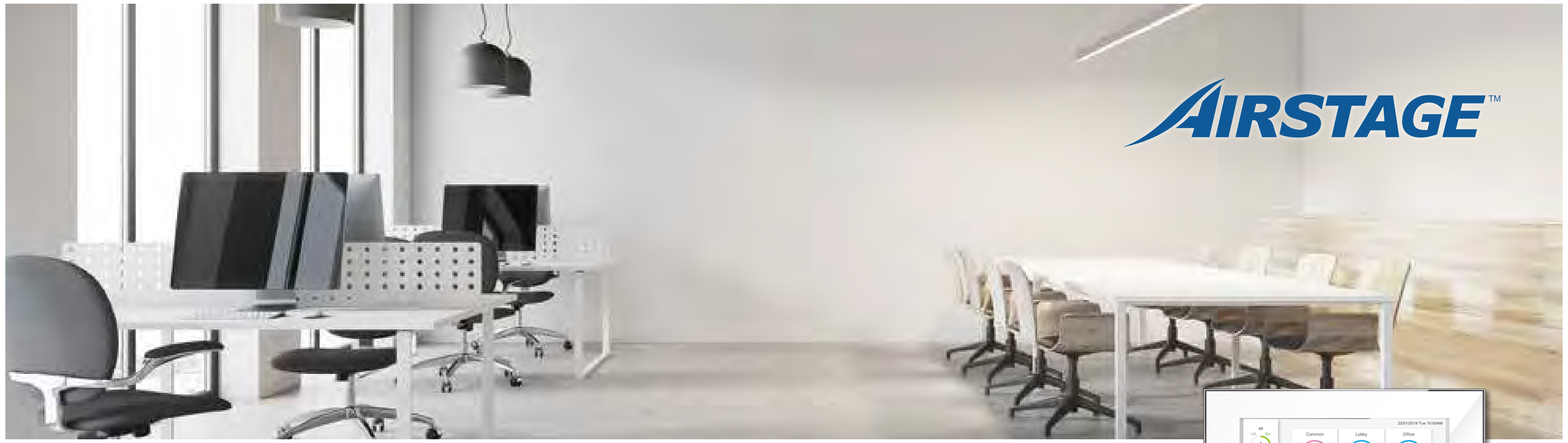
Models using new refrigerant R32. Compared to the current models the outdoor unit is more compact and easier to install. (45/54 models)
A compact cassette grid type for grid ceiling systems was added for indoor unit lineup and ease of installation was improved.

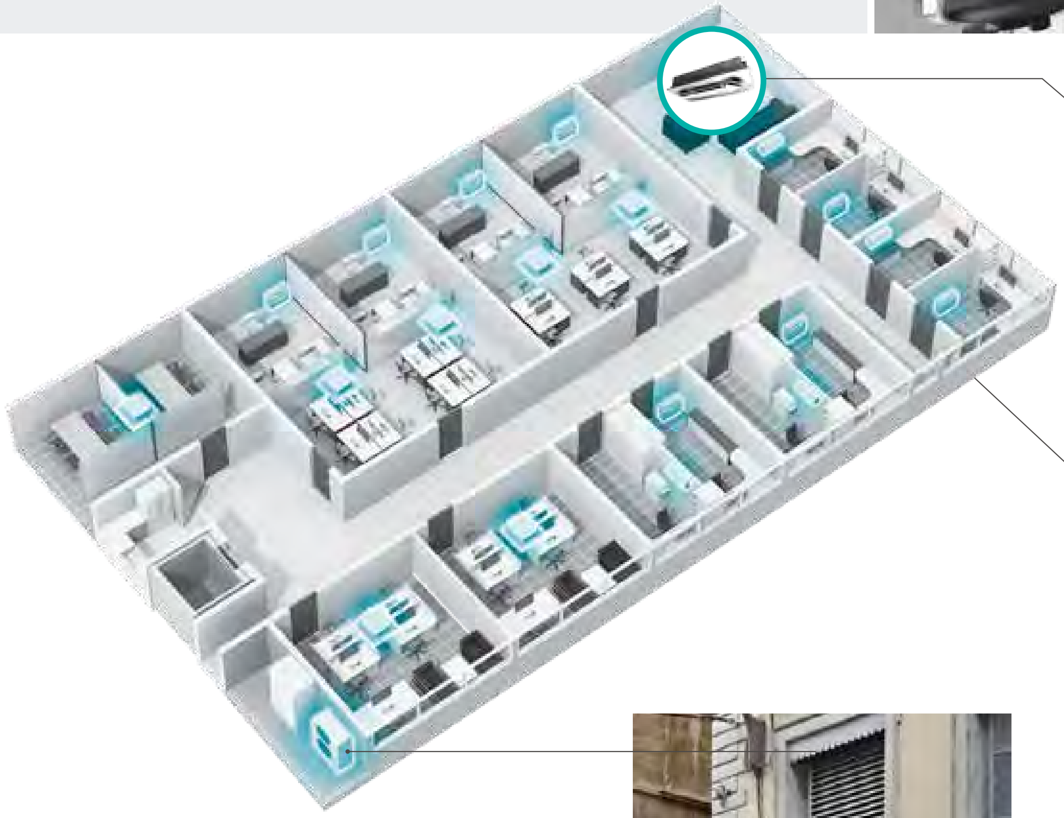


Small Offices

For Light Commercial

Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.






J-IV

J-IVL

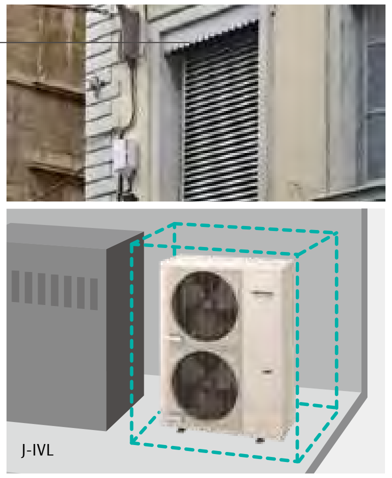
J-IVL
High capacity model

NEW

AIRSTAGE™ J Series Up to 18 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Max. 42* indoor units can be connected.

*Only J-IVL 18 HP model



Compact and low noise design outdoor unit

This compact outdoor unit does not take up much space even if installed in a machine room or on the rooftop. This unit secures enough static pressure even if there are louvers. Low noise operation is possible at nighttime by a low noise mode.

New style 3D flow cassette provides more comfort

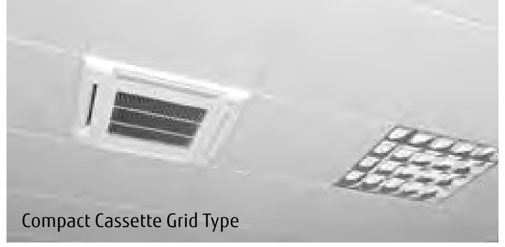
The left and right air outlet ports with max 100° rotation angle and the wide center air outlet port can minimize uneven temperature to create a comfortable space.

Various indoor units lineup for low capacity class

Various range of low capacity 1.1 kW indoor units to suit small rooms or spaces.


Wall Mounted


Compact Floor


Compact Cassette Grid Type

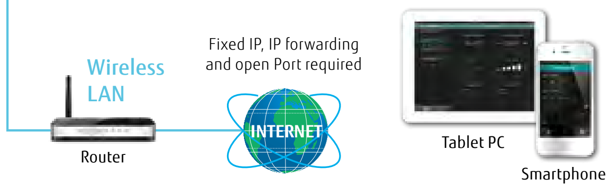

Central Remote Controller UTY-DCGYZ1

Centralized remote controller with improved operability

Temperature management of each room and one week operation control management/settings are supported easily. This controller makes energy saving management possible with upper/lower temperature limit settings and operation prohibited settings.

Control and monitoring

The same management as with the main unit is possible even if you are at your desk. Non-administrators can also operate the air conditioners with a PC, Smartphone or tablet.



*Wireless LAN support : Future release


NEW

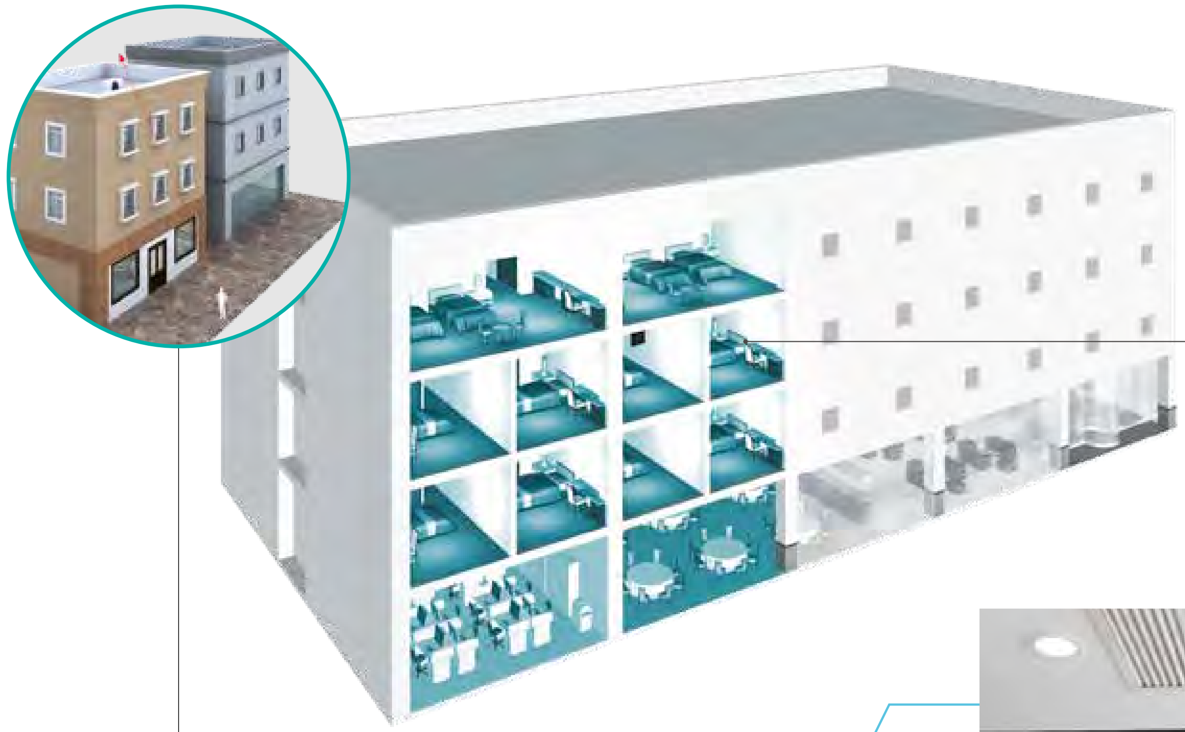
New Compact wired remote controller

The size is compact but the screen is large and easy to operate. Stylish design that fits the interior.

Hotels

For Light Commercial

Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.



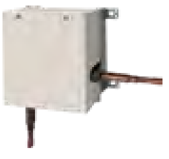
NEW

AIRSTAGE™ J Series appearance-oriented compact outdoor unit

Due to the lowest and most compact design in the industry, the appearance of hotel is not damaged even when installed on the building.

Ventilation of the whole hotel supported

Outdoor air processing is essential in hotel spaces with a high degree of airtightness. The DX-Kit can link up with air conditioners to ensure sufficient ventilation. This system can be expanded.

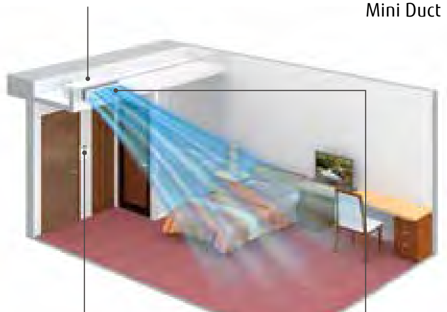

EEV unit


Control unit

Guest room air conditioning with excellent comfort, energy saving and easy installation

Space saving
Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.


Mini Duct



Card key switch available
Using the card key prevents you from forgetting to switch off the air conditioner.

Comfortable airflow that switches up and down air directions
The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.


Use of an external connect switch


Auto Louver Grille Kit

Centralized control of air conditioning in shared spaces

Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.


System controller

Simple Remote Controller with sophisticated design

Suitable for hotels or offices as it is easily operated with no complex functions.
Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.

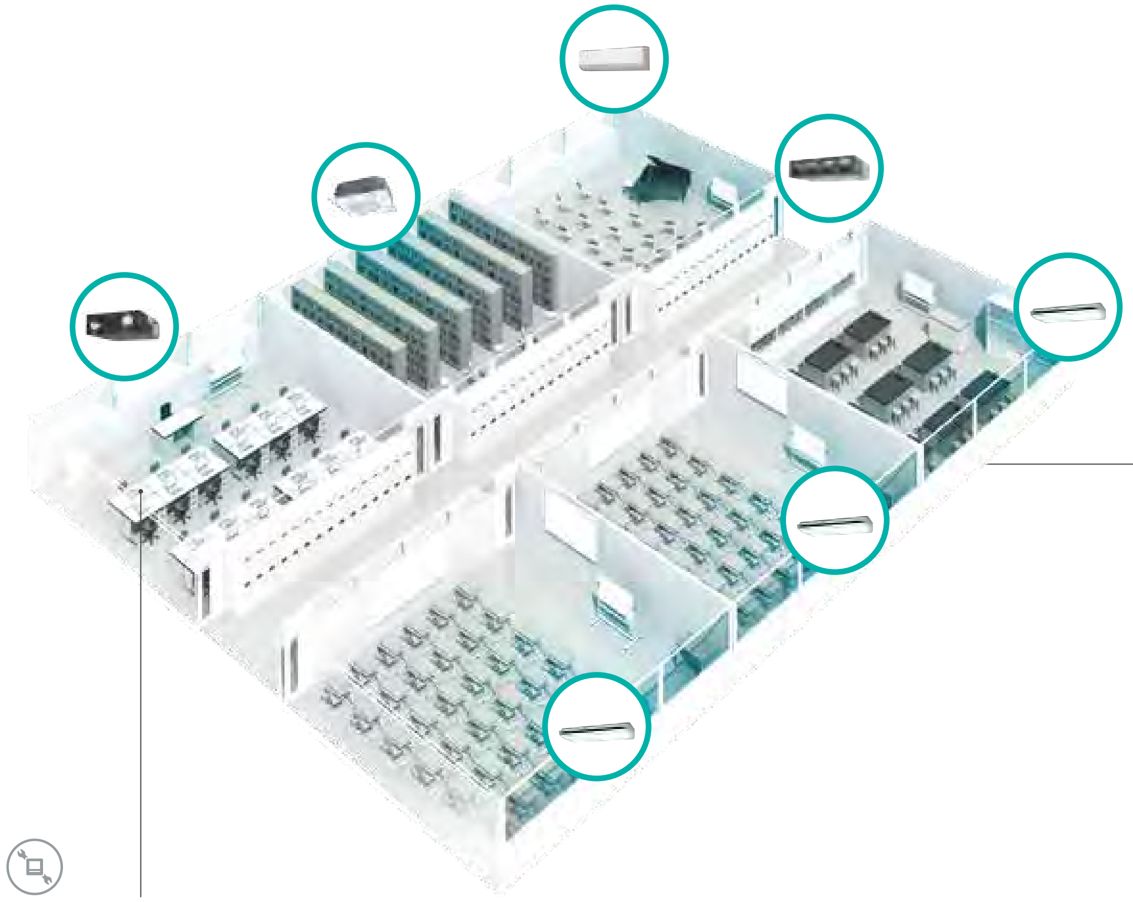
Large space air conditioning in the reception and lobby

Ultra-large duct type single split system suitable for large spaces with high ceilings

School

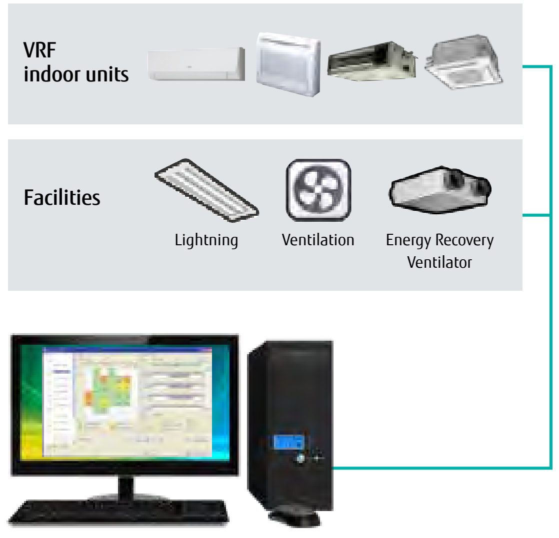
For Light Commercial

Fujitsu General provides the optimal number of connected indoor units for mid-sized educational institutions. The degree of freedom of the installation location selection is improved with a compact design that minimizes the installation area. Even one outdoor unit can cover the entire school building.

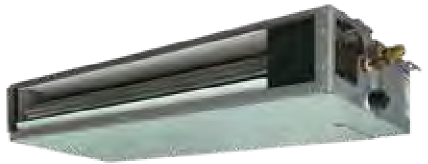


Centralized control of both air conditioning and ventilation equipment

It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioners. This is useful in energy saving management over the whole building.



System Controller Lite



Mini Duct

Medium Static Pressure Duct

Ceiling

Wall Mounted

Various indoor units

We have a lineup of indoor units that can also support complex applications – from normal classrooms to special classrooms and auditoriums. Air conditioners can be also added easily.

Energy Recovery Ventilator

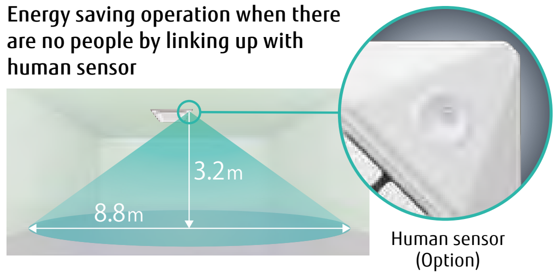
Circular Flow Cassette

Comfortable room air conditioning without airflow feeling

Circular Flow Cassette blows out in all directions without temperature unevenness

Individual airflow direction control to prevent people from being exposed to airflow

Energy saving operation when there are no people by linking up with human sensor



Human sensor (Option)

Large Building

For Commercial

Fujitsu General provides modular type VRF systems that seek high efficiency, comfort, design freedom, easy installation and reliability for skyscraper buildings.

Abundant lineup suitable to match the operating environment

VRF Series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°C*

*: V-III Tropical model only

NEW

AIRSTAGE VR-IV

Smart and cutting-edge design. Extensive lineup from 8 HP to 48 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

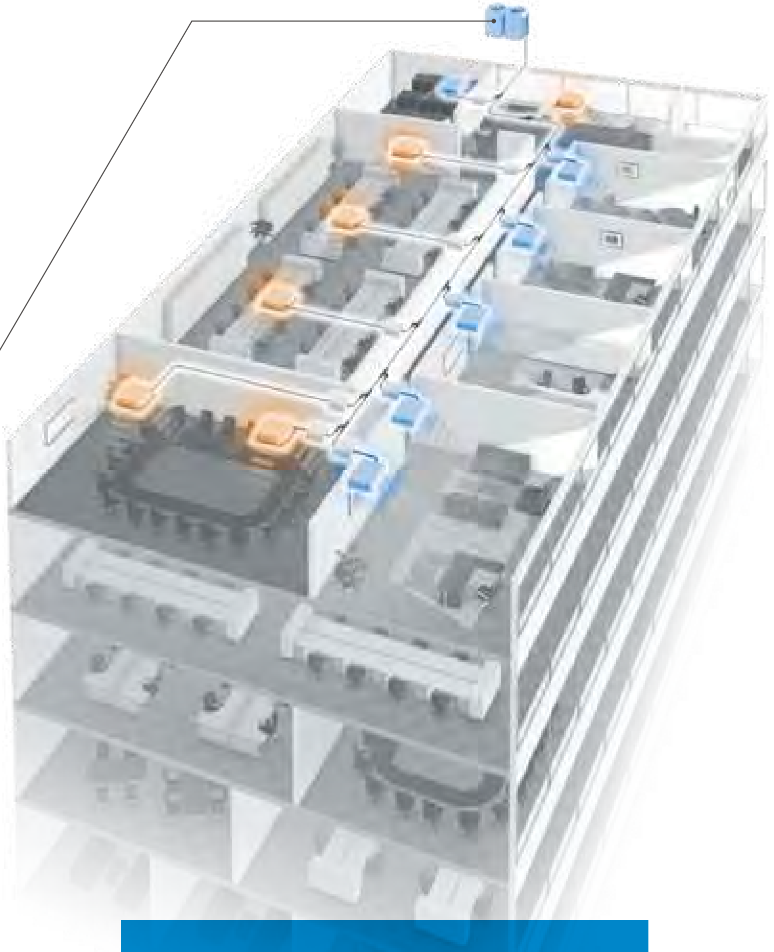
8 HP - 48 HP 34 Models

- Space saving combination: 8 HP to 48 HP/21 models
- Energy efficiency combination: 16 HP to 44 HP/13 models

AIRSTAGE V-III
AIRSTAGE V-III TROPICAL SPEC

8 HP - 54 HP 39 Models

- Space saving combination: 8 HP to 54 HP/24 models
- Energy efficiency combination: 16 HP to 46 HP/ 15 models

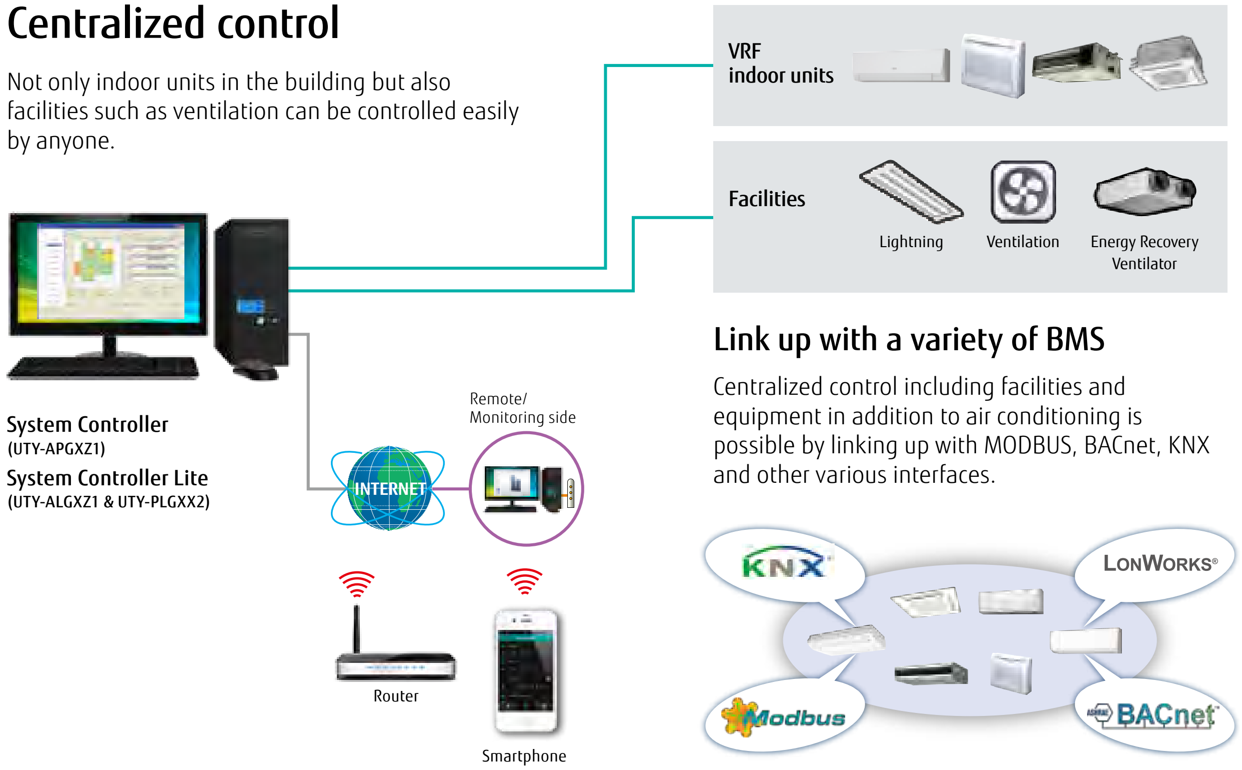


Individual air conditioning system for large buildings

Capacities of AIRSTAGE VR-IV can be expanded up to simultaneous cooling and heating with maximum 48HP. Large individual air conditioning is supported.

Centralized control

Not only indoor units in the building but also facilities such as ventilation can be controlled easily by anyone.



Link up with a variety of BMS

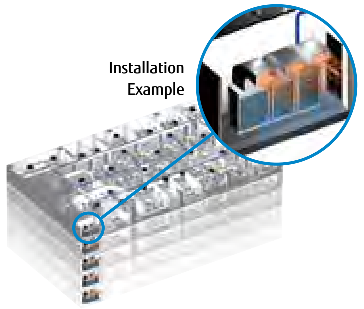
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.

High system flexibility

Flexible installation on each floor and installation of diverse indoor units are possible through the industry's top class high static pressure, long piping design and connection capacity.

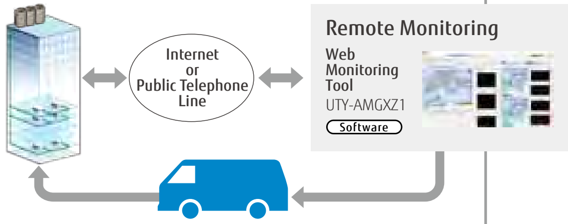
82* Pa

*: V-III, 80Pa for VR-IV



Rapid service support

The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.



Residence

For Apartment & House

Fujitsu General provides the products that match spaces and the rhythm of life from living rooms where the whole family relaxes to small rooms such as bedrooms and children's rooms.

Various indoor units suitable for the characteristics of each room

For Living Room & Dining Room

NEW KE Series

Cool Beauty Design Models
What we aim is a well-designed air conditioner especially for Europe. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere

NEW KM Series

For Large Room

Standard & Comfort
Optimum for large spaces by basic functions and powerful & comfortable airflow control

KG Series GOOD DESIGN

For Master Bed Room or Living Room

Good Design & Silent Model
High performance and low noise model with an emphasis on its design

KM Series GOOD DESIGN

KP Series

For Bed Room or Home Office

Standard & ECO Range Series
High performance and compact design model for compact spaces such as bed room or home office.

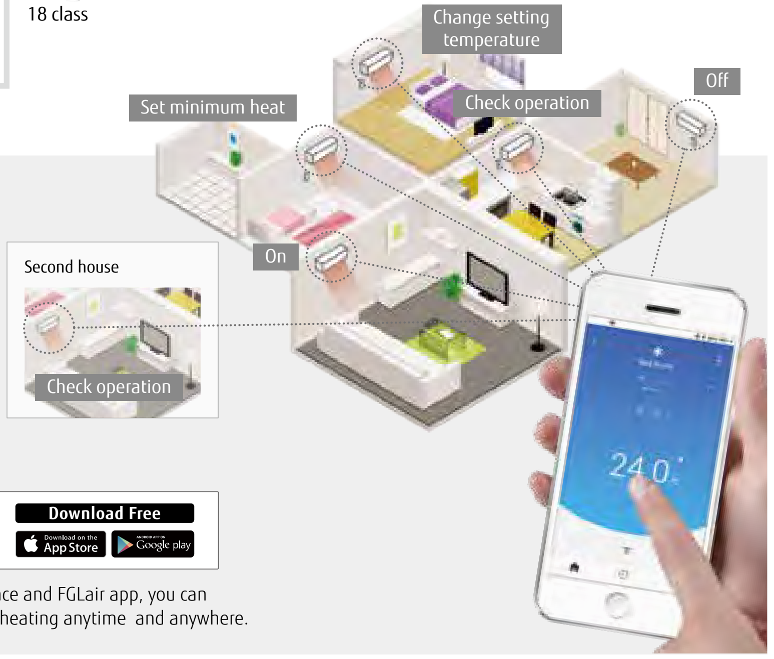
Outdoor units suitable for residential environments

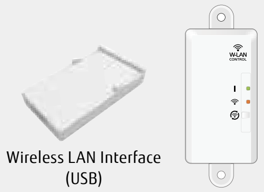
R32 Multi-split type released

Models using the environmentally-friendly new refrigerant R32 were released. Two new wall mounted types with improved visual design were added to the indoor unit lineup.

Operation from anywhere

With a single smartphone, you can check the operating status of not only your home air conditioner, but also the air conditioners in your second house and your parental home (up to 24 air conditioners).





Wireless LAN Interface (USB)

\+ FGLair Download Free App Store Google play

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

Light Commercial & Residential

SPLIT & MULTI-SPLIT

Energy saving design to provide a comfortable indoor environment while being environment-friendly.

An air conditioner that is people-friendly is also environment-friendly. Fujitsu General meets various needs for from living rooms and bedrooms to stores, small offices and hotels.

SPLIT & MULTI-SPLIT

Light Commercial & Residential

FUJITSU GENERAL LIMITED

Light Commercial & Residential

SPLIT

Refrigerant type R32 models

Wall Mounted

Cassette

Duct

Ceiling

Refrigerant type R410A models

Wall Mounted

Cassette

Duct

Floor, Floor/Ceiling, Ceiling

Split Overview

Fujitsu General provides its customers with 6 types and 128 models air conditioning system ideal for various customer applications and layout. Environment-friendly new refrigerant R32 models are added.

Wall Mounted, Designer Series, Cool Beauty Design

Ceiling

Wall Mounted

Installation work is simple and easy for wall mounted type. We have pursued airflow control and energy saving including our dual side fan equipped flagship models. At the same time, their flat and simple designs that match the interior are also attractive. We have a lineup with many models that have adopted the new environmentally friendly R32 refrigerant.

Cassette

Cassette type adapts to the interior. This type blows air in four directions to perform the air conditioning of entire spaces evenly. We have a variety of series including Compact models that have adopted a new design panel to match grid ceilings and Circular Flow models that deliver air in 360° directions.

Duct

The main unit of this type cannot be seen, so your interior will feel clear. We have Mini Duct and Slim Duct models available to also enable installation in narrow spaces in beams or above the ceiling. For a large model suitable for air conditioning vast spaces, multiple outlets can be installed by only one unit. Therefore, these models are recommended for unusual room layout.

Floor

Floor type with compact and slim design is suitable for installation in both residential and commercial. This model is recommended as heating device because it blows warm airflow from both above and below outlets.

Floor/Ceiling

Two types of installation method – floor installation and ceiling installation – can be selected. This model has a compact design with a width of 990 mm and a depth of just 199 mm (ceiling installation: height). This means they can handle various installation conditions.

Ceiling

Installation work is as easy as with wall mounted type. This model can be installed neatly because it has a thin design with a height of 240 mm. It delivers a powerful wind far away from a wide outlet. Therefore, this model is ideal for oblong rooms such as large meeting rooms and audiovisual rooms with depth.

Indoor Units Lineup

REFRIGERANT R32

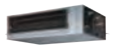
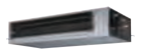
FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS.
Check ongoing validity of certificate:
www.eurovent-certification.com
* Models so marked are not ECC certified.

Type	Series	Refrigerant	Model	Class		Class								
				7	9	12	14	18	22	24	30	36	45	54
Wall Mounted	**Flagship Series** **nocria *X***	R32				ASYG12KXCA								
	Designer Series High Spec & Design	R32		ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB							
	Designer Series Cool Beauty Design	R32	  NEW	ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B							
	Standard Series High Efficiency & Comfort	R32	 NEW	ASYG07KMCC*	ASYG09KMCC*	ASYG12KMCC*	ASYG14KMCC*							
	Standard Series High Efficiency & Large Room	R32						ASYG18KMTA		ASYG24KMTA				
	Standard Series High Efficiency & Large Room	R32	 NEW								ASYG30KMTA	ASYG36KMTA		
	ECO Series Compact & Comfort	R32		ASYG07KPCA	ASYG09KPCA	ASYG12KPCA								
	ECO Series Comfort for Large Room	R32						ASYG18KLCA*		ASYG24KLCA*				
Cassette	**Compact 4-way Flow Series** Compact & Comfort	R32			AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA				
	Circular Flow Series Comfort for Large Room	R32	 18/22/24  30/36/45/54					AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
Duct	**Slim Duct**	R32	 09/12/14  18		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP						
	Medium Static Pressure Duct Compact & Comfort	R32	 12/14  18/22/24/30  36/45/54			ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP
	Medium Static Pressure Duct Standard	R32							ARXG22KMLA	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	
	High Static Pressure Duct	R32											ARXG45KHTA	ARXG54KHTA
Ceiling		R32	 18/22  24/30  36/45/54 NEW					ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA

REFRIGERANT R410A

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.

Type	Series	Refrigerant	Model	Class				Class								
				7	9	12	14	18	24	30	36	45	54	60	72	90
Wall Mounted	**Designer Series** High Spec & Design	R410A			ASYG09LTCA	ASYG12LTCA										
	Designer Series High COP			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA									
	Standard Series High Efficiency & Comfort			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE									
	Standard Series Comfort for Large Room							ASYG18LFCA	ASYG24LFCC	ASYG30LFCA						
										ASYG30LMTA	ASYG36LMTA					
	ECO Series Compact & Comfort			ASYG07LLCE	ASYG09LLCE	ASYG12LLCE										
Cassette	**Compact 4-way Flow Series** Compact & Comfort	R410A				AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA							
	Circular Flow Series Comfort for Large Room		 18/24  30/36/45/54					AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB			
	4-way Flow Series Comfort for Large Room									AUYG30LRLE	AUYG36LRLE AUYG36LRLA	AUYG45LRLA	AUYG54LRLA			
Duct	**Mini Duct**	R410A	 12/14  18			ARYG12LSLAP*	ARYG14LSLAP*	ARYG18LSLAP*								
	Slim Duct		 12/14  18			ARYG12LLTB	ARYG14LLTB	ARYG18LLTB								
	Medium Static Pressure Duct Compact & Comfort		 12/14  18/24/30  36/45/54			ARYG12LHTBP	ARYG14LHTBP	ARYG18LHTBP	ARYG24LHTBP	ARYG30LHTBP	ARYG36LHTBP	ARYG45LHTBP	ARYG54LHTBP			
	Medium Static Pressure Duct Standard								ARYG24LMLA	ARYG30LMLE	ARYG36LMLE ARYG36LMLA	ARYG45LMLA				
	High Static Pressure Duct		 45/54  60									ARYG45LHTA	ARYG54LHTA	ARYG60LHTA		
	Big Duct														ARYG72LHTA*	ARYG90LHTA*
Floor Compact & Comfort		R410A			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA									
Floor/Ceiling Comfort & Dual Design		R410A						ABYG18LVTB	ABYG24LVTA							
Ceiling Comfort for Large Room		R410A								ABYG30LRTE	ABYG36LRTE ABYG36LRTA	ABYG45LRTA	ABYG54LRTA			

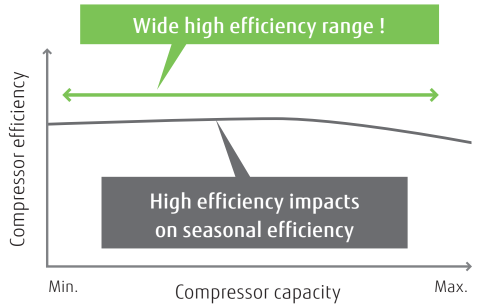
Feature

High Efficiency

All DC Inverter Technology

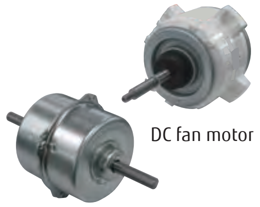
DC twin rotary compressor

The high efficiency DC inverter type "2-cylinder rotary compressor" is used for our product ranges. It has achieved higher energy efficiency compared with similar compressors by optimizing the structure inside the compressor.



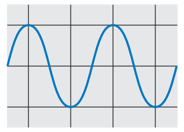
DC fan motor

DC fan motor produces high power, wide operation range, and high efficiency.



Sine-wave DC inverter control

High efficiency operation is realized by using a sine wave DC inverter control.



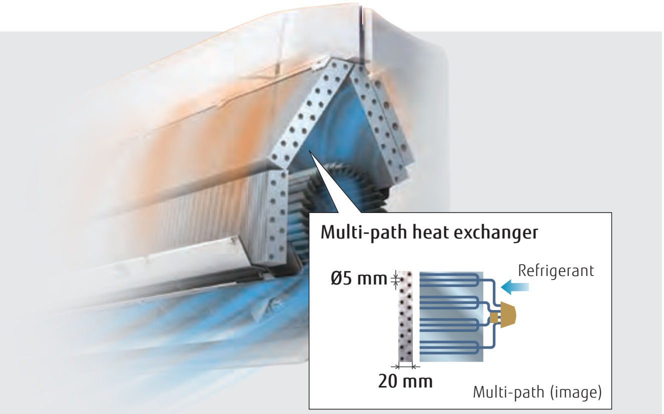
Heat Exchanger for Wall Mounted

High density multi-path heat exchanger

Heat exchange performance is substantially improved by thin and high-density heat exchanger and multi-path efficiency technology.

High performance sub-cool heat exchanger

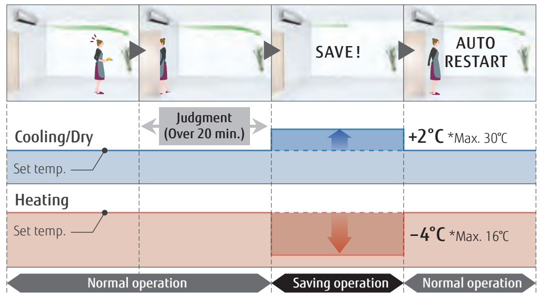
Higher performance achieved by mounting of counter type bypass circuit. (Large multi-split type, VRF)



High Energy Saving

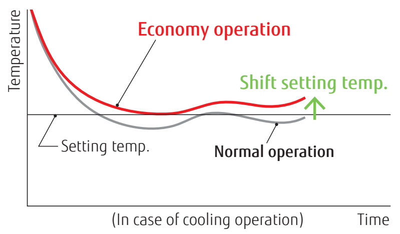
Human sensor control

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.



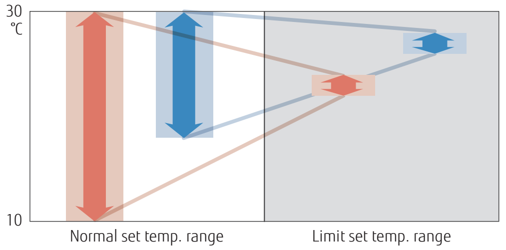
Economy operation

Limits the maximum operation current, and the power consumption is cut down and the maximum load is suppressed.



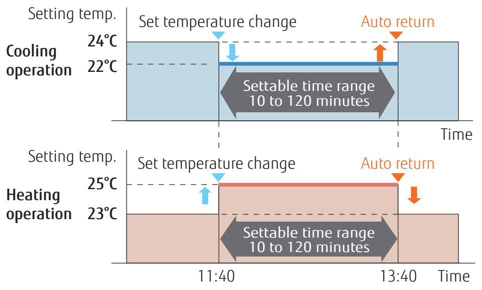
Room temperature set point limitation

The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



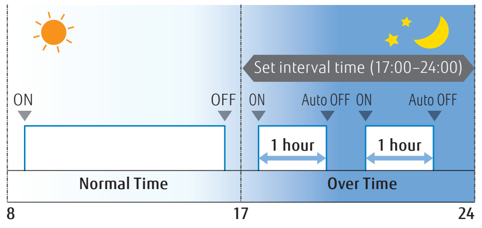
Set temperature auto return

- The setting temperature automatically returns to the previous setting temperature.
- The time range in which the set temperature can be changed is 10 to 120 minutes.



Auto-off timer

- The indoor unit is turned off automatically when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Off time can be set from 30 to 240 minutes.



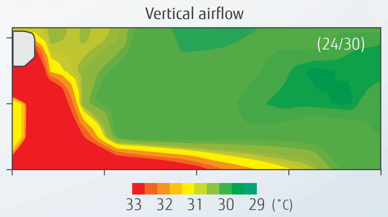
More Comfort

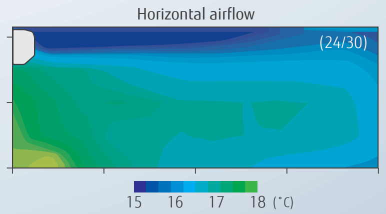
Powerful heating

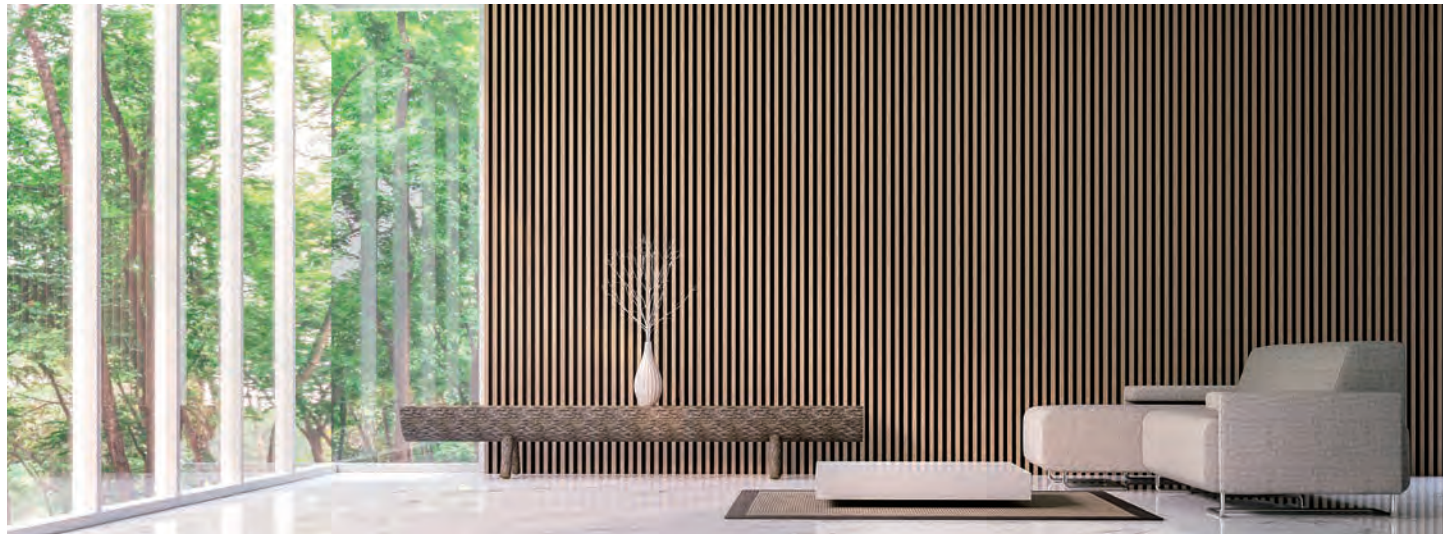
High heating capacity is realized even at low outdoor temperature by mounting a large heat exchanger or large DC rotary compressor and developing high performance inverter PCB

Power diffuser

Precision wind direction control is realized and ventilation efficiency is also improved by 3 technologies. Our airflow control makes your environment more comfortable.

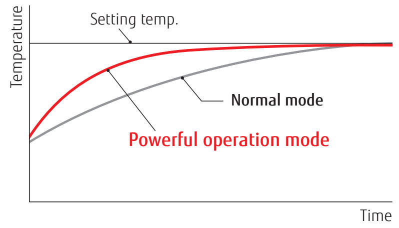






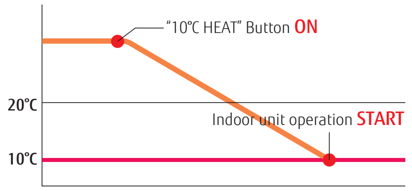
Powerful operation

Continuous operation by maximum airflow and maximum compressor speed after a certain period of time allows the temperature to reach the setting temp. quickly.



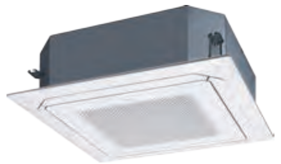
10°C Heat operation

When you leave, minimum heating operation is performed to maintain the room temperature. (Maintained at 10°C)



Uniform air conditioning

Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces

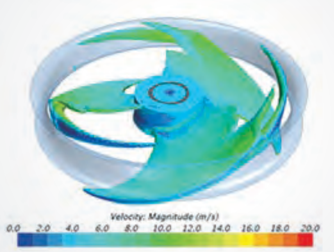


Quiet and Comfort Control

Low Noise Technology

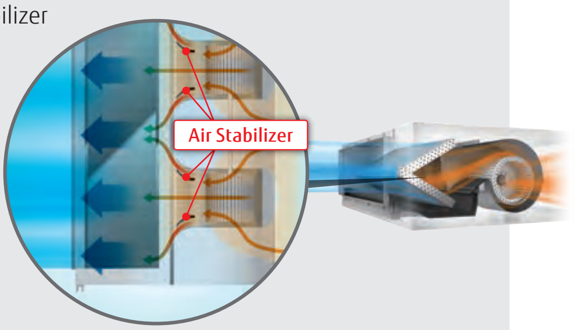
Outdoor unit fan

Outdoor unit fan design with little separation vortex, fan control to minimize the air volume and top class low noise



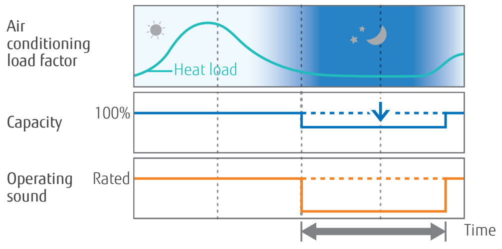
Air stabilizer in Duct

Low noise duct structure with a built-in air stabilizer



Outdoor unit low noise operation

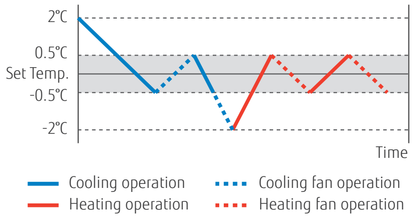
Users can choose low noise levels, depending on the installation environment. The operation time can be set using the timer.



Quiet priority low noise mode

Auto-changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



Fresh air intake for Cassette, Duct, Ceiling

Fresh air can be taken in by a fan which can be connected using external control unit.

Fresh Air Intake kit

Feature Explanation

Energy Saving Function

Dual side fans
The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.

Economy mode
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

Save human sensor
Human sensor detects the movement of people in the room and judges whether the energy saving operation.

Room temperature set point limitation
The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.

Save & Stop human sensor
Human sensor (option) detects movement of people in the room and decides whether to save energy or stop the unit.

Set temperature auto return
The setting temperature automatically returns to the previously set temperature.

Comfortable Function

Powerful heating
Keeping the rated heating capacity even when the outdoor ambient temperature is -7℃.

Powerful mode
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.

Auto-changeover
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.

Automatic fan speed
The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.

Fresh air intake
Fresh air can be taken in by a fan which can be connected using external control unit.

Power diffuser
An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.

10℃ HEAT operation
The room temperature can be set to go no lower than 10℃, thus ensuring that the room does not get too cold when not occupied.

Up/down swing flaps
The up/down flaps automatically swing up and down.

Auto restart
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.

Connectable distributing duct
Systems are capable of attaching Locally purchased branch ducts distributing the airflow.

Server room operation
Interlock operation is possible by connecting 2 indoor units even in the low temperature.

Low noise mode
Sound noise level of outdoor unit can be selected.

Double swing automatic
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.

Connectable fresh air duct
Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.

Individual airflow direction control
Each louver of 4-way Cassette type can be controlled individually and provides comfortable airflow.

Convenient Function

Auto off timer
Automatically stops operation when a fixed time has elapsed from the start of operation.

Weekly timer
Different ON-OFF times can be set for each day.

External error output

Sleep timer
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.

Weekly + setback timer
Weekly + Setback timer can set temperature for two times spans and for each day of the week.

External ON/OFF input

Program timer
This digital timer allows selection of one of four options: ON, OFF, ON » OFF or OFF » ON.

Filter sign
Indicates the filter cleaning period by lamp.

Wireless LAN control
The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Clean Function

Plasma air clean
The electrostatic precipitator removes dust particles such as pollens and house dust. It is washable and can be always maintained clean.

Apple-catechin filter
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Filter auto clean
The dust collected by the air filter is automatically removed. A routine disposal of the dust stored in the dust box is necessary.

Long life filter

Ion deodorization filter
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Washable panel
Since the front panel is easy to remove, maintenance is also easy.

Installation

Automatic airflow adjustment
Automatically detects required airflow in each application case and adjusts the volume.

Drain pump as standard

Blue fin

All DC models

Wall Mounted

Flagship Series

nocria™ X

REFRIGERANT R32

DUAL BLASTER

ALL DC

Dual | Save | Economy | Diffuser | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Double | Adjust | Restart | Sleep | Program | LAN | Plasma | Auto

Comfortable airflow control to prevent the body from being exposed to airflow

WORLD'S FIRST*1 DUAL BLASTER

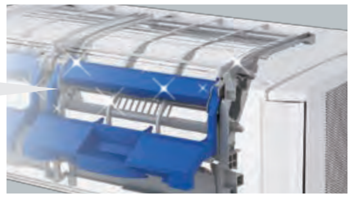
The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.

*1: Announced 2012. In room air conditioner for the home (Our company's investigation)

Filter Auto Clean

WORLD'S FIRST*2

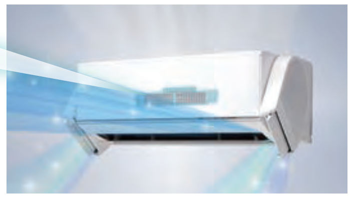
Dust on the filter is automatically removed to prevent power from being wasted by the clogged filter.



*2: Announced 2002. In room air conditioner for the home (our company's investigation)

Plasma Air Clean

Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.



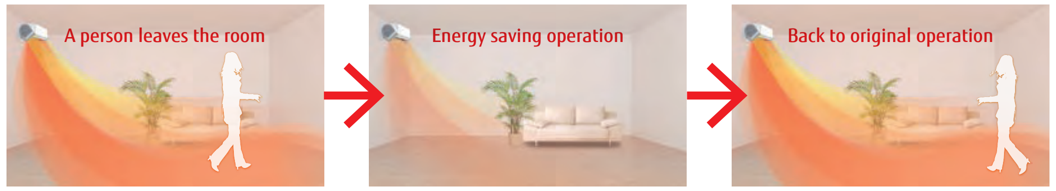
Human Sensor

The Human sensor detects movement of people in a room and operates at reduced capacity when people leave the room. When people return to the room, the system automatically returns to the previous room settings.

Rank A+++

SEER 8.5

SCOP 5.1



Model: ASYG12KXCA

Wireless R.C.

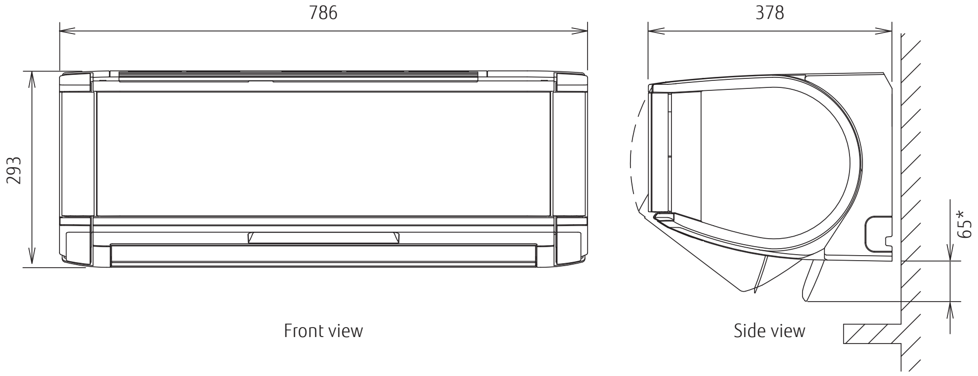
Wireless
LAN Interface

Specifications

Model No.	Indoor unit			ASYG12KXCA
	Outdoor unit			AOYG12KXCA
Power Source				Single phase, ~230V, 50Hz
Capacity	Cooling		kW	3.4 (0.6-5.3)
	Heating			5.0 (0.6-9.0)
Input Power	Cooling/Heating		kW	0.670/1.020
EER	Cooling		W/W	5.09
COP	Heating			4.90
Pdesign	Cooling/Heating(-10°C)		kW	3.4/3.5
SEER	Cooling		W/W	8.50
SCOP	Heating (Average)			5.10
Energy Efficiency Class	Cooling			A+++
	Heating (Average)			A+++
Max. Operating Current	Cooling/Heating		A	9.0/16.0
Annual Energy Consumption	Cooling		kWh/a	140
	Heating			961
Moisture Removal			l/h	1.2
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	46/42/38/28
	Indoor (Heating)	H/M/L/Q		48/43/39/30
	Outdoor(Cooling/Heating)	High		44/43
Sound Power Level	Indoor(Cooling/Heating)	High		58/62
	Outdoor(Cooling/Heating)	High		57/57
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	670/2,230
	Indoor / Outdoor (Heating)			810/1,975
Net Dimensions H x W x D	Indoor		mm	293×786×378
	Outdoor		mm	704×820×315
Weight	Indoor		kg(lbs)	20 (44)
	Outdoor		kg(lbs)	41 (90)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	15 (15)
Max Height Difference				10
Operation Range	Cooling		°CDB	-10 to 43
	Heating			-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)
	Charge		kg(CO2eq-T)	1.30 (0.878)

Dimensions

(Unit : mm)



*Dimensions in case of air flowing downward

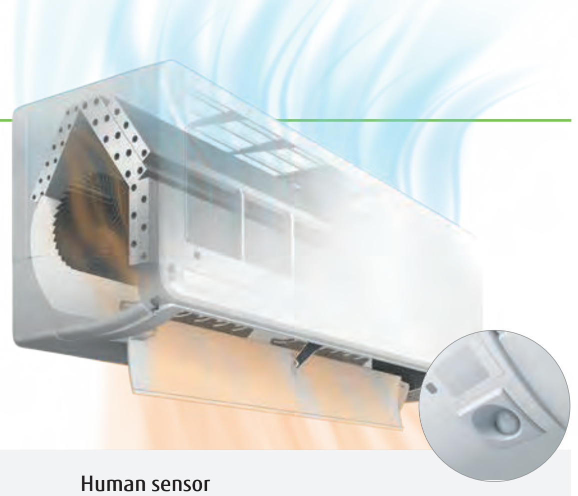
Wall Mounted

Designer Series

High Spec & Design

GOOD DESIGN

Save Economy Powerful 10°C HEAT Low Noise Auto Changeover Up/Down Adjust Restart Sleep Program Weekly Filter ION AF Washable



High energy saving

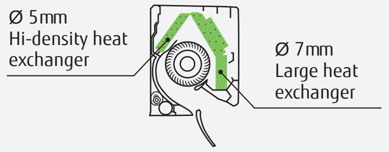
Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank A+++ *1 SEER 8.5*1 SCOP 5.1*1

*1: 07, 09, 12 models

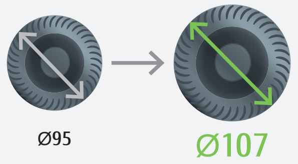
Hybrid-heat exchanger

The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.



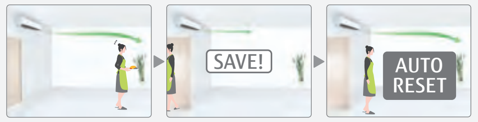
Ø107 Large cross-flow fan

With the large-diameter fan, efficient air volume can be obtained at low power.



Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.



Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.

19dB(A)
(07/09/12 models)
Cooling only

Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.

Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Model: ASYG07KGTB / ASYG09KGTB / ASYG12KGTB / ASYG14KGTB

Wireless R.C.

Specifications

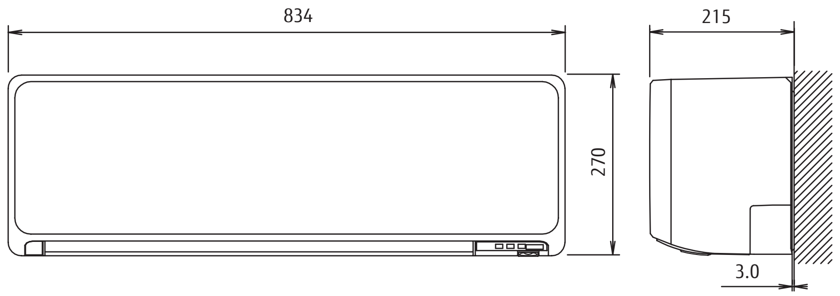
Model No.				ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB
	Outdoor unit			AOYG07KGCA	AOYG09KGCA	AOYG12KGCA	AOYG14KGCA
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.0 (0.9-3.2)	2.5 (0.9-3.4)	3.4 (0.9-4.1)	4.2 (0.9-4.5)
	Heating			2.5 (0.9-5.2)	2.8 (0.9-5.4)	4.0 (0.9-6.1)	5.4 (0.9-6.4)
Input Power	Cooling/Heating		kW	0.400/0.500	0.555/0.560	0.805/0.910	1.175/1.350
EER	Cooling		W/W	5.00	4.50	4.22	3.57
COP	Heating			5.00	5.00	4.40	4.00
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling		W/W	8.52	8.52	8.51	7.11
SCOP	Heating (Average)			5.12	5.11	5.10	4.31
Energy Efficiency Class	Cooling			A+++	A+++	A+++	A++
	Heating (Average)			A+++	A+++	A+++	A+
Max. Operating Current	Cooling/Heating		A	6.5/9.0	6.5/9.0	6.5/9.0	9.0/10.5
Annual Energy Consumption	Cooling		kWh/a	82	103	140	207
	Heating			628	658	685	1,298
Moisture Removal			l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/33/29/19	40/34/29/19	40/35/30/19	43/36/30/20
	Indoor (Heating)	H/M/L/Q		41/35/31/21	42/36/31/21	42/38/33/21	44/39/33/24
	Outdoor(Cooling/Heating)	High		46/46	46/48	50/50	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		54/56	55/57	56/58	57/59
	Outdoor(Cooling/Heating)	High		61/62	61/63	65/66	65/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	650/1,610	700/1,610	700/1,680	770/1,680
	Indoor / Outdoor (Heating)	High		720/1,560	750/1,610	770/1,580	800/1,580
Net Dimensions H x W x D	Indoor		mm	270×834×215	270×834×215	270×834×215	270×834×215
	Outdoor		mm	542×799×290	542×799×290	542×799×290	542×799×290
Weight	Indoor		kg(lbs)	10 (22)	10 (22)	10 (22)	10 (22)
	Outdoor		kg(lbs)	30 (66)	30 (66)	31 (68)	32 (71)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52			
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8			
Max Pipe Length (Pre-Charge)			m	20 (15)			
Max Height Difference				15			
Operation Range	Cooling		°CDB	-10 to 46			
	Heating			-15 to 24			
Refrigerant	Type (Global Warming Potential)			R32 (675)			
	Charge		kg(CO2eq-T)	0.75 (0.506)	0.75 (0.506)	0.85 (0.574)	0.85 (0.574)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	Wireless LAN Interface:	UTY-TFSXW1	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Communication Kit:	UTY-TWRXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	KNX® Convertor:	UTY-VKSX		
Simple Remote Controller (Without operation mode):	UTY-RHRY	MODBUS® Convertor:	UTY-VMSX		
Simple Remote Controller:	UTY-RSRY	External input and output PCB:	UTY-XCSXZ2		
External Switch Controller:	UTY-TERX	External Connect Kit:	UTY-XWZX		

Dimensions

(Unit : mm)



NEW

Wall Mounted

Designer Series

Cool Beauty Design

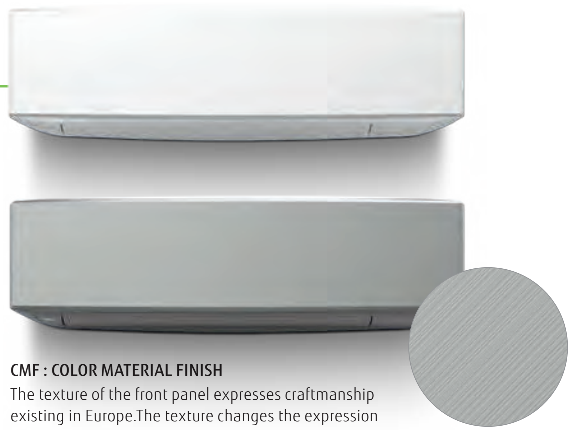
REFRIGERANT R32

ALL DC

Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Weekly | Filter | ION | AF | Washable

Cool Beauty Design

What we aim is a well-designed air conditioner especially for Europe. It is different from Japanese one harmonized with its surroundings and it appeals comfortable elegant feeling in the room. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere.



CMF : COLOR MATERIAL FINISH

The texture of the front panel expresses craftmanship existing in Europe.The texture changes the expression by the changing light of the day.

High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank
Cooling *1
A++
Heating *2
A+

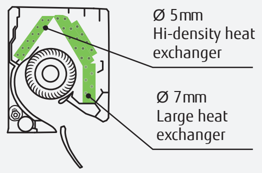
SEER 7.4 *1

SCOP 4.4 *2

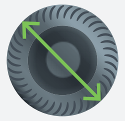
*1: 07/09 models

*2: 12 model

Hybrid-heat exchanger



Ø107 Large cross-flow fan



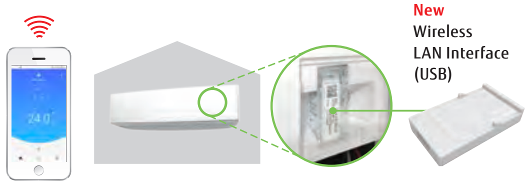
Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.

Smart Device control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.

When you add our Wireless Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.



FGLair™

Model: ASYG07KETA / ASYG09KETA / ASYG12KETA / ASYG14KETA
ASYG07KETA-B / ASYG09KETA-B / ASYG12KETA-B / ASYG14KETA-B

Peal white X White

Silver X Dark gray

Wireless R.C.

For ASYG07/09/12KETA
ASYG07/09/12KETA-B

For ASYG14KETA
ASYG14KETA-B

Specifications

TENTATIVE

Model No.				ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B
	Outdoor unit			AOYG07KETA	AOYG09KETA	AOYG12KETA	AOYG14KETA
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.0 (0.9 - 3.0)	2.5 (0.9 - 3.2)	3.4 (0.9 - 3.9)	4.2 (0.9 - 4.4)
	Heating			2.5 (0.9 - 3.4)	2.8 (0.9 - 4.0)	4.0 (0.9 - 5.3)	5.4 (0.9 - 6.0)
Input Power	Cooling/Heating		kW	0.450 / 0.555	0.630 / 0.620	0.935 / 0.960	1.220 / 1.410
EER	Cooling		W/W	4.43	3.97	3.65	3.44
COP	Heating			4.52	4.52	4.17	3.83
Pdesign	Cooling/Heating(-10°C)		kW	2.0 / 2.3	2.5 / 2.4	3.4 / 2.5	4.2 / 4.0
SEER	Cooling		W/W	7.40	7.40	7.30	6.9
SCOP	Heating (Average)			4.10	4.10	4.40	4.1
Energy Efficiency Class	Cooling			A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		A	6.5 / 9.0	6.5 / 9.0	6.5 / 9.0	6.5 / 9.0
Annual Energy Consumption	Cooling		kWh/a	95	118	163	213
	Heating			785	819	795	1,367
Moisture Removal			l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38 / 33 / 29 / 20	40 / 34 / 29 / 20	40 / 35 / 30 / 20	43 / 36 / 30 / 20
	Indoor (Heating)	H/M/L/Q		41 / 35 / 31 / 22	42 / 36 / 31 / 22	42 / 38 / 33 / 22	44 / 39 / 33 / 24
	Outdoor(Cooling/Heating)	High		46 / 46	46 / 46	50 / 50	50 / 50
Sound Power Level	Indoor(Cooling/Heating)	High		54 / 56	55 / 57	55 / 58	57 / 59
	Outdoor(Cooling/Heating)	High		61 / 61	61 / 62	65 / 65	65 / 66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	650 / 1,650	700 / 1,650	700 / 1,700	770 / 1,680
	Indoor / Outdoor (Heating)	High		720 / 1,450	750 / 1,450	770 / 1,470	800 / 1,580
Net Dimensions H x W x D	Indoor		mm	295×950 (wall side : 840)×230			
	Outdoor		mm	541×663×290	541×663×290	541×663×290	542×799×290
Weight	Indoor		kg(lbs)	11(24)	11(24)	11(24)	11.5(25)
	Outdoor		kg(lbs)	23(51)	23(51)	25(55)	31(68)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
Drain hose Diameter (I.D./O.D.)				13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)

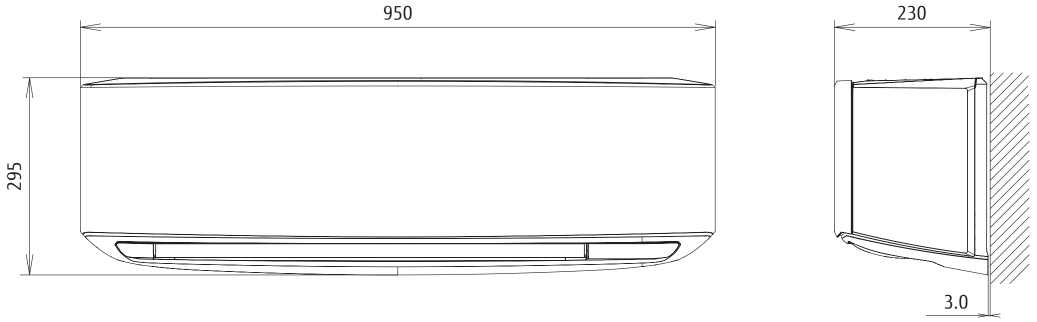
Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	Communication Kit:	UTY-TWRXZ2	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External input and output PCB:	UTY-XCSXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	External Connect Kit:	UTY-XWZXZ5	KNX® Convertor:	UTY-VKSX*
Simple Remote Controller (Without operation mode):	UTY-RHRY	External Switch Controller:	UTY-TERX	MODBUS® Convertor:	UTY-VMSX*
Simple Remote Controller:	UTY-RSRY	Wireless LAN Interface:	UTY-TFSXF2		

*: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed.

Dimensions

(Unit : mm)



NEW

Wall Mounted

Standard Series

High Efficiency & Comfort

GOOD DESIGN

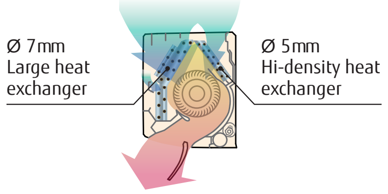
ALL DC

Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter

Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.

Hybrid-heat exchanger



High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank *1
Cooling
A++
Heating
A+

SEER 7.4 *1

SCOP 4.4 *2

*1: 07/09 models

*2: 12 model

Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.

20dB(A)
Cooling only

Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.

Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Model: ASYG07KMCC / ASYG09KMCC / ASYG12KMCC / ASYG14KMCC

Wireless R.C.

For ASYG07/09/12KMCC

For ASYG14KMCC

Specifications

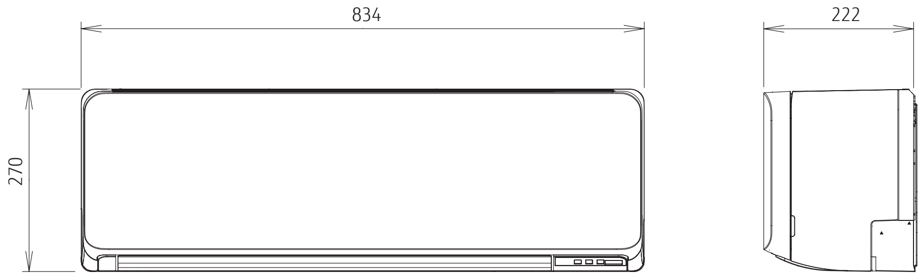
Model No.	Indoor unit			ASYG07KMCC	ASYG09KMCC	ASYG12KMCC	ASYG14KMCC
	Outdoor unit			AOYG07KMCC	AOYG09KMCC	AOYG12KMCC	AOYG14KMCC
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.0 (0.9-3.0)	2.5 (0.9-3.2)	3.4 (0.9-3.9)	4.2 (0.9-4.4)
	Heating			2.5 (0.9-3.4)	2.8 (0.9-4.0)	4.0 (0.9-5.3)	5.4 (0.9-6.0)
Input Power	Cooling/Heating		kW	0.450/0.555	0.630/0.620	0.935/0.960	1.220/1.410
EER	Cooling		W/W	4.43	3.97	3.65	3.44
COP	Heating			4.52	4.52	4.17	3.83
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling		W/W	7.40	7.40	7.30	6.90
SCOP	Heating (Average)			4.10	4.10	4.40	4.10
Energy Efficiency Class	Cooling			A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		A	6.5/9.0	6.5/9.0	6.5/9.0	6.5/9.0
Annual Energy Consumption	Cooling		kWh/a	95	118	163	213
	Heating			785	819	795	1367
Moisture Removal			l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/33/29/20	40/34/29/20	40/35/30/20	43/36/30/20
	Indoor (Heating)	H/M/L/Q		41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
	Outdoor(Cooling/Heating)	High		46/46	46/46	50/50	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		54/56	55/57	55/58	57/59
	Outdoor(Cooling/Heating)	High		61/61	61/62	65/65	65/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	650/1,650	700/1,650	700/1,700	770/1,680
	Indoor / Outdoor (Heating)	High		720/1,450	750/1,450	780/1,470	820/1,580
Net Dimensions H x W x D	Indoor		mm	270×834×222	270×834×222	270×834×222	270×834×222
	Outdoor		mm	541×663×290	541×663×290	541×663×290	542×799×290
Weight	Indoor		kg(lbs)	10 (22)	10 (22)	10 (22)	10 (22)
	Outdoor		kg(lbs)	22 (49)	22 (49)	24 (53)	31 (68)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)

Optional parts

Wired Remote Controller:	UTY-RNNYM	KNX® Convertor:	UTY-VKSX
	UTY-RVNYM	MODBUS® Convertor:	UTY-VMSX
Simple Remote Controller:	UTY-RSNYM	External Switch Controller:	UTY-TERX
External connect kit:	UTY-XWZXZ5	Network Convertor for single split (DC power supply type):	UTY-VTGX
Communication kit:	UTY-TWBXF2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wireless LAN Interface:	UTY-TFSXW1		

Dimensions

(Unit : mm)



Wall Mounted

Standard Series

High Efficiency & Large Room

Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Double | Adjust | Restart | Sleep | Program | Weekly | Filter | ION | AF | Washable

High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

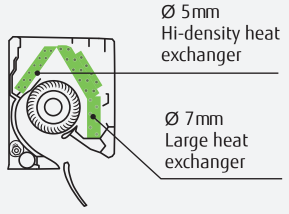
Rank[*1]
Cooling
A++
Heating
A+

SEER 7.7[*1] SCOP 4.5[*1]

*1: 18 model

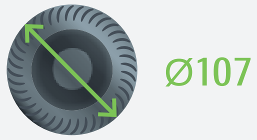
Hybrid-heat exchanger

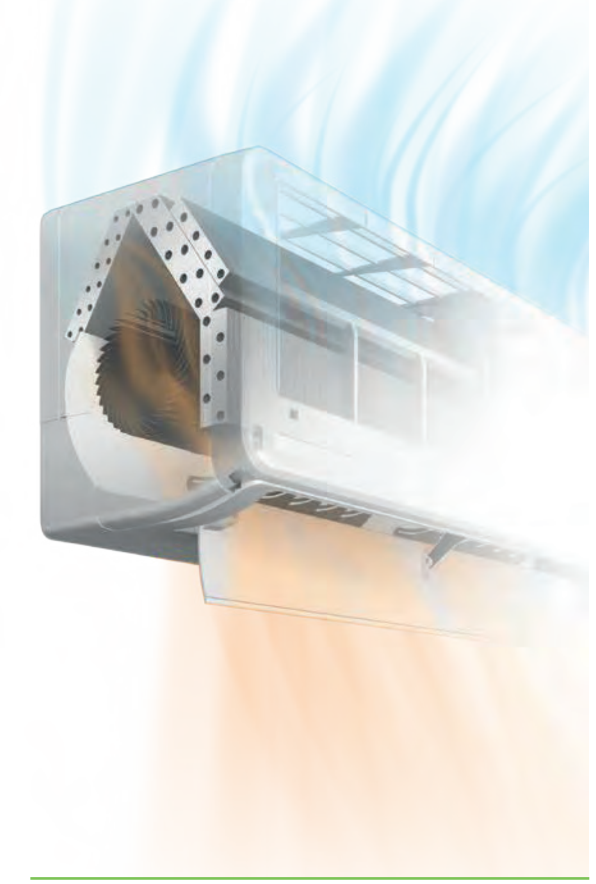
The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.



Ø107 Large cross-flow fan

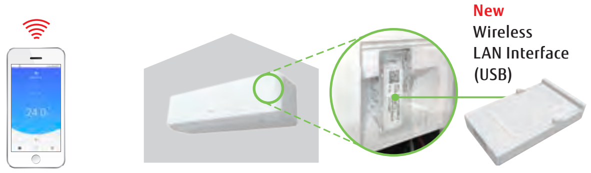
With the large-diameter fan, efficient air volume can be obtained at low power.



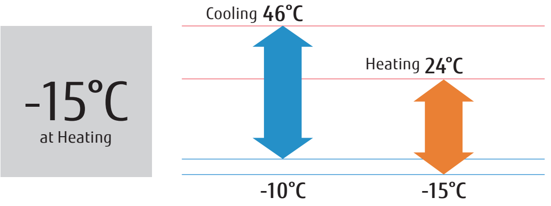


Smart device Control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.



Low ambient operation



Model: ASYG18KMTA / ASYG24KMTA

Wireless R.C.

For ASYG18KMTA

For ASYG24KMTA

Specifications

Model No.	Indoor unit			ASYG18KMTA	ASYG24KMTA
	Outdoor unit			AOYG18KMTA	AOYG24KMTA
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	5.2(0.9-6.0)	7.1(0.9-8.3)
	Heating			6.3(0.9-8.7)	8.0(0.9-10.1)
Input Power	Cooling/Heating		kW	1.39/1.56	2.08/1.91
EER	Cooling		W/W	3.74	3.41
COP	Heating			4.04	4.19
Pdesign	Cooling/Heating(-10°C)		kW	5.2/4.8	7.1/7.1
SEER	Cooling		W/W	7.77	7.28
SCOP	Heating (Average)			4.56	4.18
Energy Efficiency Class	Cooling			A++	A++
	Heating (Average)			A+	A+
Max. Operating Current	Cooling/Heating		A	9.5/13.5	13.5/16.0
Annual Energy Consumption	Cooling		kWh/a	234	341
	Heating			1,472	2,372
Moisture Removal			l/h	1.7	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	45/40/35/29	49/40/35/29
	Indoor (Heating)	H/M/L/Q		46/40/35/29	49/40/35/29
	Outdoor(Cooling/Heating)	High		50/50	54/52
Sound Power Level	Indoor(Cooling/Heating)	High		60/61	65/65
	Outdoor(Cooling/Heating)	High		65/65	67/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	980/2,350	1,170/3,240
	Indoor / Outdoor (Heating)	High		1,020/2,100	1,170/2,820
Net Dimensions H x W x D	Indoor		mm	280 × 980 × 240	280 × 980 × 240
	Outdoor		mm	632 × 799 × 290	716 × 820 × 315
Weight	Indoor		kg(lbs)	12.5(28)	12.5(28)
	Outdoor		kg(lbs)	36(79)	42(93)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35 / 12.70	6.35 / 12.70
Drain hose Diameter (I.D./O.D.)				13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	25(15)	30(15)
Max Height Difference				20	25
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	1.02(0.689)	1.32(0.891)

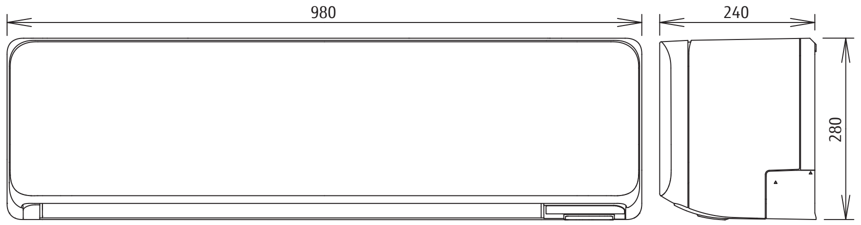
Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	Communication Kit:	UTY-TWRXZ2	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External input and output PCB:	UTY-XCSXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	External Connect Kit:	UTY-XWZXZ5	KNX® Convertor:	UTY-VKSX*
Simple Remote Controller (Without operation mode):	UTY-RHRY	Wireless LAN Interface:	UTY-TFSXF2	MODBUS® Convertor:	UTY-VMSX*
Simple Remote Controller:	UTY-RSRY	External Switch Controller:	UTY-TERX		

*: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed.

Dimensions

(Unit : mm)



NEW

Wall Mounted

Standard Series

High Efficiency & Large Room

REFRIGERANT R32

ALL DC

Save | Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Double | Adjust | Restart | Sleep | Program | Weekly | Filter | ION | AF | Washable | Blue Fin

Small and light weight outdoor unit

This model is much more compact than conventional outdoor unit.
It can be installed in a narrow place.

Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.

Adopting new refrigerant R32

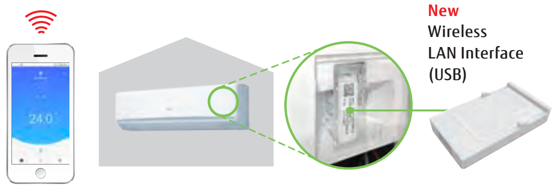
R32 refrigerant is highly environmentally friendly for the reduction of the global warming potential than other refrigerant currently available on the market.

REFRIGERANT R32

Smart Device control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.

When you add our Wireless Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.



FGLair

Model: ASYG30KMTA / ASYG36KMTA

Wireless R.C.

Specifications

TENTATIVE

Model No.					
Model No.	Indoor unit			ASYG30KMTA	ASYG36KMTA
	Outdoor unit			AOYG30KMTA	AOYG36KMTA
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	8.0 (2.9-9.0)	9.4(2.9-10.0)
	Heating			8.8(2.2-11.0)	10.1(2.7-11.2)
Input Power	Cooling/Heating		kW	2.33/2.20	3.16/2.73
EER	Cooling		W/W	3.43	2.97
COP	Heating			4.00	3.70
Pdesign	Cooling/Heating(-10°C)		kW	8.0/6.5	9.4/7.1
SEER	Cooling		W/W	6.67	6.14
SCOP	Heating (Average)			4.54	4.52
Energy Efficiency Class	Cooling			A++	A++
	Heating (Average)			A+	A+
Max. Operating Current	Cooling/Heating		A	21.0/21.0	21.5/21.5
Annual Energy Consumption	Cooling		kWh/a	419	535
	Heating			2,001	2,198
Moisture Removal			l/h	2.6	3.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	50/44/40/33	50/44/40/33
	Indoor (Heating)	H/M/L/Q		49/44/39/33	49/44/39/33
	Outdoor(Cooling/Heating)	High		53/55	55/55
Sound Power Level	Indoor(Cooling/Heating)	High		65/65	65/65
	Outdoor(Cooling/Heating)	High		68/69	70/70
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,330/3,750	1,330/3,750
	Indoor / Outdoor (Heating)	High		1,330/3,750	1,330/3,750
Net Dimensions H x W x D	Indoor		mm	340x1,150x280	340x1,150x280
	Outdoor		mm	788x940x320	788x940x320
Weight	Indoor		kg(lbs)	18.5(41)	18.5(41)
	Outdoor		kg(lbs)	52.0(115)	52.0(115)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	50(30)	50(30)
Max Height Difference				30	30
Operation Range	Cooling		°CDB	-15to46	-15to46
	Heating			-15to24	-15to24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)
	Charge		kg(CO2eq-T)	1.90(1.283)	1.90(1.283)

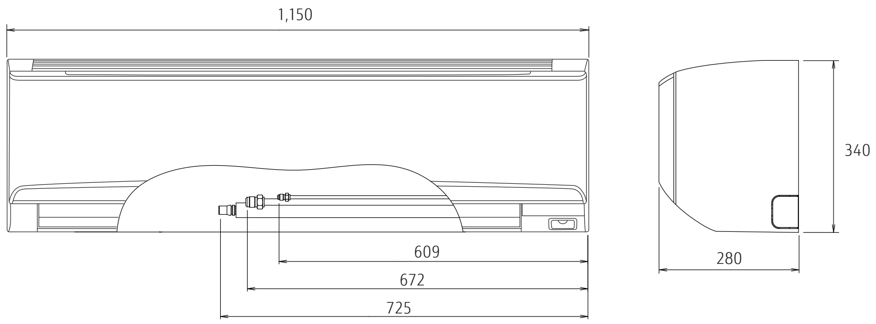
Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	External Input and Output PCB:	UTY-XCSXZ2	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Communication Kit:	UTY-TWRXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	Wireless LAN Interface:	UTY-TFSXF2		
Simple Remote Controller (Without operation mode):	UTY-RHRY	External Switch Controller:	UTY-TERX		
Simple Remote Controller:	UTY-RSRY	KNX® Convertor:	UTY-VKSX*		
External Connect Kit:	UTY-XWZXZ5	MODBUS® Convertor:	UTY-VMSX*		

*: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed.

Dimensions

(Unit : mm)



Wall Mounted

ECO Series

Compact & Comfort

REFRIGERANT R32

ALL DC

Economy | Powerful | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | Washable

Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.

High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank *1
Cooling
A++
Heating *2
A+

SEER 6.7 *1

SCOP 4.1 *2

*1:07/09 models

*2: 12 model

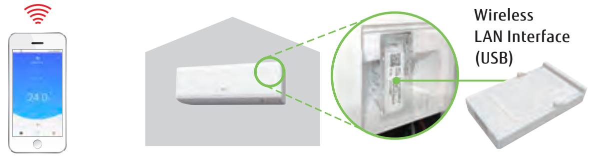
Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.

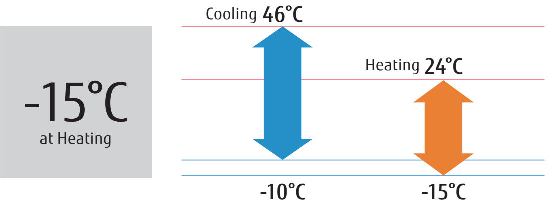
22dB(A)
Cooling only

Smart device Control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.



Low ambient operation



REFRIGERANT R32

Model: ASYG07KPCA / ASYG09KPCA / ASYG12KPCA

Wireless R.C.

Specifications

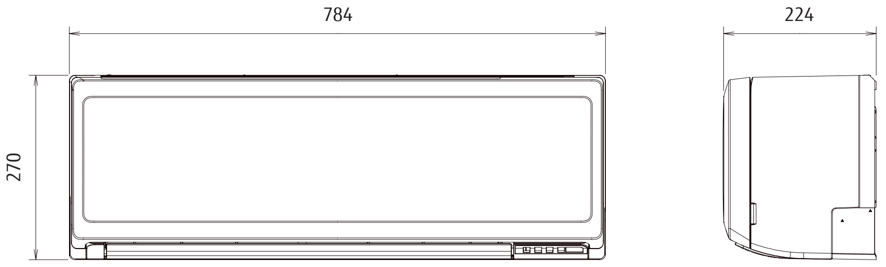
Model No.	Indoor unit			ASYG07KPCA	ASYG09KPCA	ASYG12KPCA
	Outdoor unit			AOYG07KPCA	AOYG09KPCA	AOYG12KPCA
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	2.0 (0.9-2.8)	2.5 (0.9-3.0)	3.4 (0.9-3.7)
	Heating			2.5 (0.9-3.4)	2.8 (0.9-3.8)	3.8 (0.9-4.8)
Input Power	Cooling/Heating		kW	0.48/0.63	0.71/0.79	1.00/1.14
EER	Cooling		W/W	4.17	3.52	3.40
COP	Heating			3.97	3.54	3.33
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.2	2.5/2.4	3.4/2.5
SEER	Cooling		W/W	6.70	6.70	6.30
SCOP	Heating (Average)			4.00	4.00	4.10
Energy Efficiency Class	Cooling			A++	A++	A++
	Heating (Average)			A+	A+	A+
Max. Operating Current	Cooling/Heating		A	6.5/9.0	6.5/9.0	6.5/9.0
Annual Energy Consumption	Cooling		kWh/a	104	131	189
	Heating			769	840	853
Moisture Removal			l/h	1.0	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	45/38/31/22	45/38/31/22	46/40/33/22
	Indoor (Heating)	H/M/L/Q		45/40/36/26	45/40/36/26	46/40/35/27
	Outdoor(Cooling/Heating)	High		45/46	47/47	49/51
Sound Power Level	Indoor(Cooling/Heating)	High		57/58	58/58	59/59
	Outdoor(Cooling/Heating)	High		57/58	59/59	62/62
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	580/1,650	580/1,650	630/1,700
	Indoor / Outdoor (Heating)	High		580/1,450	580/1,450	630/1,470
Net Dimensions H x W x D	Indoor		mm	270x784x224	270x784x224	270x784x224
	Outdoor		mm	541x663x290	541x663x290	541x663x290
Weight	Indoor		kg(lbs)	8(18)	8(18)	8(18)
	Outdoor		kg(lbs)	23 (51)	23 (51)	25 (55)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.55 (0.371)	0.55 (0.371)	0.59 (0.398)

Optional parts

Wireless LAN Interface:	UTY-TFSXF2
Remote Controller Holder Kit:	UTZ-RXLA

Dimensions

(Unit : mm)



Wall Mounted

ECO Series

Comfort for Large Room

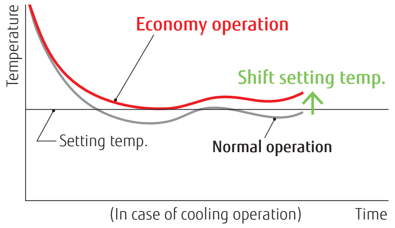
Economy | Powerful | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | Washable

Narrow width & Compact Design

High performance and compact design model. Powerful airflow is realized despite 790 mm width compact design for compact spaces such as bed room or home office.

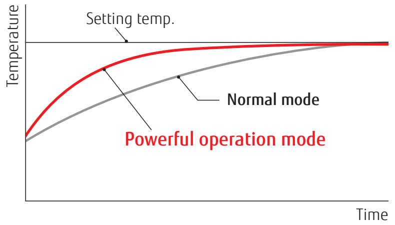
Economy operation

Setting temperature is shifted by 1°C automatically. Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.



Powerful operation

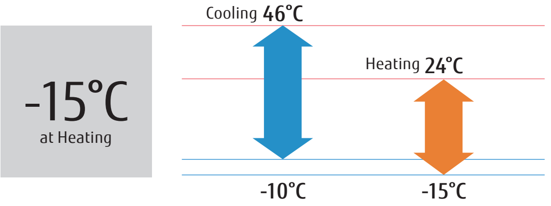
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



ON-OFF Programmable timer

You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

Low ambient operation



Model: ASYG18KLCA / ASYG24KLCA

Wireless R.C.

For ASYG18KLCA

For ASYG24KLCA

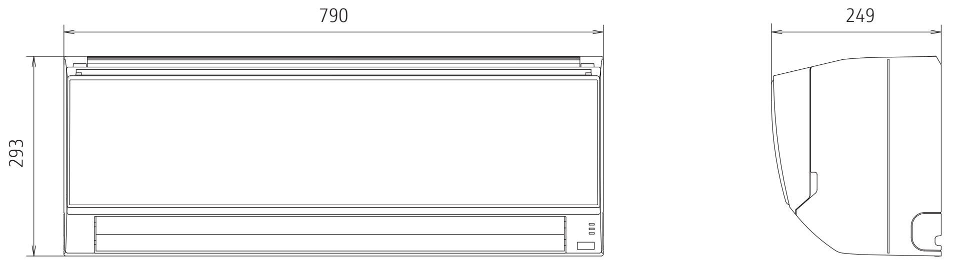
Specifications

Model No.	Indoor unit			ASYG18KLCA	ASYG24KLCA
	Outdoor unit			AOYG18KLCA	AOYG24KLCA
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	5.2(0.9~5.5)	7.1(0.9~7.7)
	Heating			6.3(0.6~7.6)	8.0(0.9~9.0)
Input Power	Cooling/Heating		kW	1.685/1.80	2.42/2.225
EER	Cooling		W/W	3.09	2.93
COP	Heating			3.50	3.60
Pdesign	Cooling/Heating(-10°C)		kW	5.20/4.80	7.10/7.10
SEER	Cooling		W/W	7.20	7.10
SCOP	Heating (Average)			4.30	4.00
Energy Efficiency Class	Cooling			A++	A++
	Heating (Average)			A+	A+
Max. Operating Current	Cooling/Heating		A	9.5/13.5	13.5/17.5
Annual Energy Consumption	Cooling		kWh/a	253	350
	Heating			1563	2485
Moisture Removal			l/h	1.9	3.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	47/44/40/35	51/45/38/33
	Indoor (Heating)	H/M/L/Q		50/45/41/37	52/45/41/37
	Outdoor(Cooling/Heating)	High		50/56	55/57
Sound Power Level	Indoor(Cooling/Heating)	High		60/65	64/65
	Outdoor(Cooling/Heating)	High		61/66	65/67
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	865/1,830	1,040/2,885
	Indoor / Outdoor (Heating)	High		995/2,265	1,040/3,030
Net Dimensions H x W x D	Indoor		mm	293×790×249	293×790×249
	Outdoor		mm	542×799×290	632×799×290
Weight	Indoor		kg(lbs)	9.5 (21)	10.0 (22)
	Outdoor		kg(lbs)	33 (73)	38 (84)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)				13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	25 (15)	30 (15)
Max Height Difference				20	25
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)
	Charge		kg(CO2eq-T)	0.85(0.574)	1.10(0.743)

Optional parts

Dimensions

(Unit : mm)



Wall Mounted

Designer Series

High Spec & Design

REFRIGERANT R410A

reddot design award
winner 2012

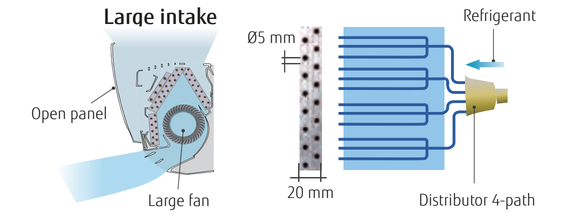
ALL DC

Save Economy Heating Powerful 10°C HEAT Low Noise Auto Changeover Up/Down Adjust Restart Sleep Program Weekly Filter ION AF

Thin & Slim design

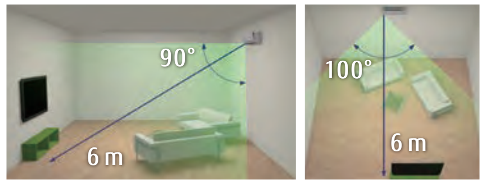
Thin and slim design is realized by high density multi-path heat exchanger and high efficiency wind blower.

Big open panel and High density multi path heat exchanger



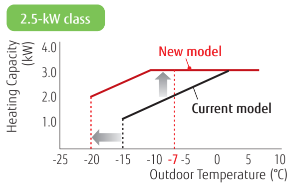
Human sensor

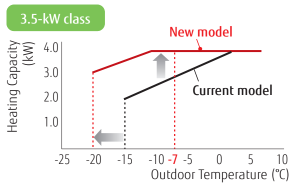
Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.



Powerful heating

Rated heating capacity is maintained up to an outdoor temperature lower than -7 °C. This new model can operate even at -20 °C low outdoor temperature.

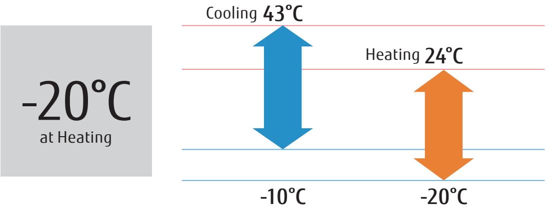




3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.

Low ambient operation



REFRIGERANT R410A

Model: ASYG09LTCA / ASYG12LTCA

Wireless R.C.

For ASYG09LTCA

For ASYG12LTCA

Specifications

Model No.	Indoor unit			ASYG09LTCA	ASYG12LTCA
	Outdoor unit			AOYG09LTC	AOYG12LTC
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	2.5 (0.9-3.5)	3.5 (1.1-4.0)
	Heating			3.2 (0.9-5.4)	4.0 (0.9-6.5)
Input Power	Cooling/Heating		kW	0.505/0.660	0.850/0.910
EER	Cooling		W/W	4.95	4.12
COP	Heating			4.85	4.40
Pdesign	Cooling/Heating(-10°C)		kW	2.5/3.0	3.5/4.0
SEER	Cooling		W/W	8.50	8.50
SCOP	Heating (Average)			4.60	4.60
Energy Efficiency Class	Cooling			A+++	A+++
	Heating (Average)			A++	A++
Max. Operating Current	Cooling/Heating		A	6.5/9.0	9.0/10.5
Annual Energy Consumption	Cooling		kWh/a	103	144
	Heating			912	1,217
Moisture Removal			l/h	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	42/36/32/21	43/37/32/21
	Indoor (Heating)	H/M/L/Q		42/37/32/21	43/38/32/21
	Outdoor(Cooling/Heating)	High		48/50	48/49
Sound Power Level	Indoor(Cooling/Heating)	High		59/61	60/62
	Outdoor(Cooling/Heating)	High		63/65	64/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	800/1,700	850/2,050
	Indoor / Outdoor (Heating)	High		800/1,700	850/2,000
Net Dimensions H x W x D	Indoor		mm	282×870×185	282×870×185
	Outdoor		mm	540×790×290	620×790×290
Weight	Indoor		kg(lbs)	9.5 (21)	9.5 (21)
	Outdoor		kg(lbs)	33 (73)	40 (88)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)
Max Height Difference				15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43
	Heating			-20 to 24	-20 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.05 (2.192)	1.20 (2.506)

Optional parts

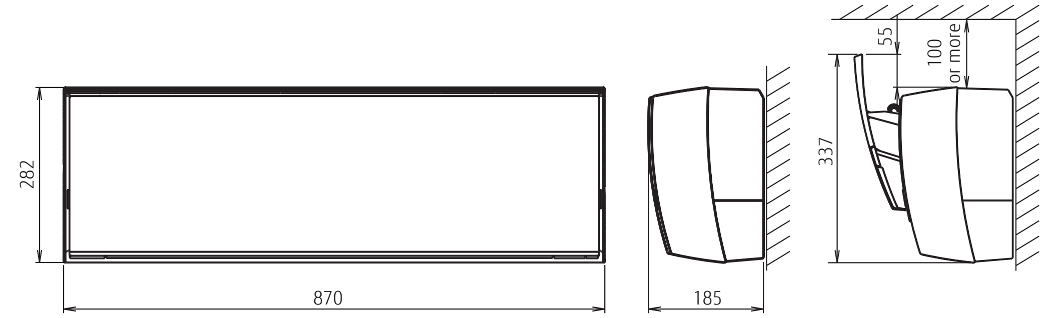
Wired Remote Controller: UTY-RNNYM
UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Wireless LAN Interface: UTY-TFNXZ1
FJ-RC-WIFI-1

Communication Kit: UTY-TWBXF
UTY-TWBXF2
External Connect Kit: UTY-XWZXZ5
MODBUS® Interface: FJ-RC-MBS-1
KNX® Interface: FJ-RC-KNX-1i

External Switch Controller: UTY-TERX
Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV

Dimensions

(Unit : mm)



Wall Mounted

Designer Series

High COP

REFRIGERANT R410A

product design award 2012

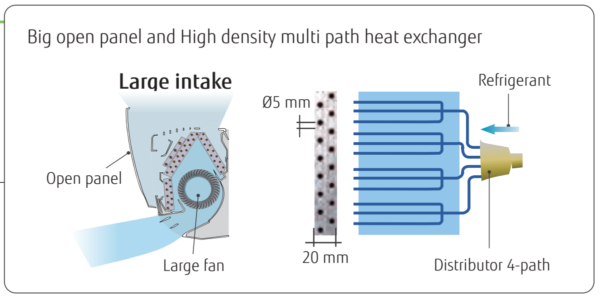
reddot design award winner 2012

ALL DC

Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Weekly | Filter | ION | AF

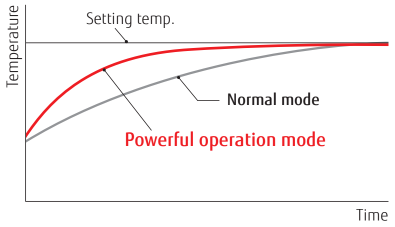
Thin & Slim design

Thin and slim design is realized by Ø5 mm heat exchanger and high efficiency wind blower.



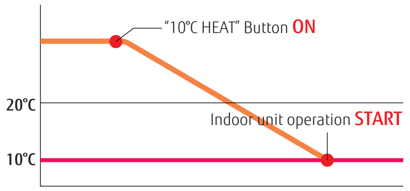
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



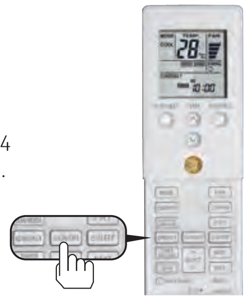
10°C HEAT Operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
*Only available with Wireless RC.

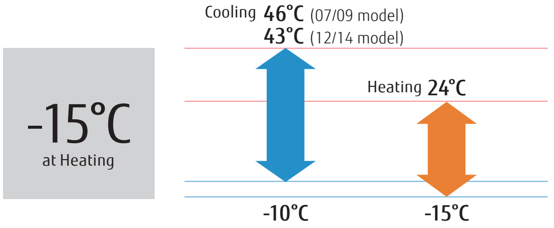


3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.



Low ambient operation



Model: ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA

REFRIGERANT R410A

Wireless R.C.

For ASYG07/09LUCA

For ASYG12/14LUCA

Specifications

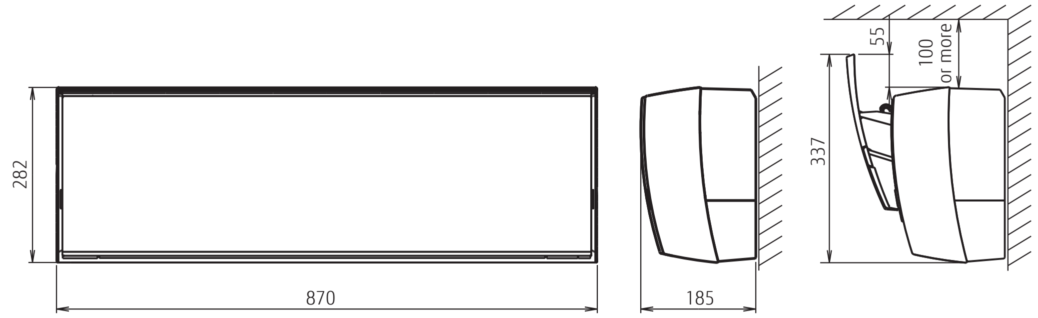
Model No.				ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Indoor unit			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Outdoor unit			AOYG07LUCA	AOYG09LUCB	AOYG12LUC	AOYG14LUC
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating			3.0 (0.5-4.0)	3.2 (0.5-4.2)	4.0 (0.9-5.6)	5.4 (0.9-6.0)
Input Power	Cooling/Heating		kW	0.460/0.740	0.555/0.680	0.905/0.930	1.235/1.380
EER	Cooling		W/W	4.35	4.50	3.87	3.40
COP	Heating			4.05	4.71	4.30	3.91
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.6	2.5/2.8	3.5/3.9	4.2/4.8
SEER	Cooling		W/W	7.20	7.10	7.05	6.78
SCOP	Heating (Average)			4.02	4.10	4.00	4.00
Energy Efficiency Class	Cooling			A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		A	6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
Annual Energy Consumption	Cooling		kWh/a	97	123	174	217
	Heating			887	956	1363	1677
Moisture Removal			l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/35/31/21	42/36/32/21	43/37/32/21	45/40/33/25
	Indoor (Heating)	H/M/L/Q		38/35/31/21	42/37/32/21	43/38/32/21	45/40/34/27
	Outdoor(Cooling/Heating)	High		46/46	48/48	50/50	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		57/59	59/61	60/62	60/64
	Outdoor(Cooling/Heating)	High		58/58	60/60	65/65	65/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	680/1,720	800/1,720	850/1,940	900/1,940
	Indoor / Outdoor (Heating)	High		710/1,510	800/1,510	850/1,700	950/1,700
Net Dimensions H x W x D	Indoor		mm	282×870×185	282×870×185	282×870×185	282×870×185
	Outdoor		mm	540×660×290	540×660×290	540×790×290	540×790×290
Weight	Indoor		kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
	Outdoor		kg(lbs)	23 (51)	25 (55)	33 (73)	34 (75)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 43	-10 to 43
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	0.70 (1.462)	0.85 (1.775)	1.05 (2.192)	1.05 (2.192)

Optional parts

Wired Remote Controller:	UTY-RNNYM	Communication Kit:	UTY-TWBXF2	Communication Kit:	UTY-TWBXF
	UTY-RVNYM	External Connect Kit:	UTY-XWZXZ5	Network Convertor for single split (DC power supply type):	UTY-VTGX
Simple Remote Controller:	UTY-RSNYM	External Switch Controller:	UTY-TERX	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wireless LAN Interface:	UTY-TFNXZ1	MODBUS® Interface:	FJ-RC-MBS-1		
	FJ-RC-WIFI-1	KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



Wall Mounted

Standard Series

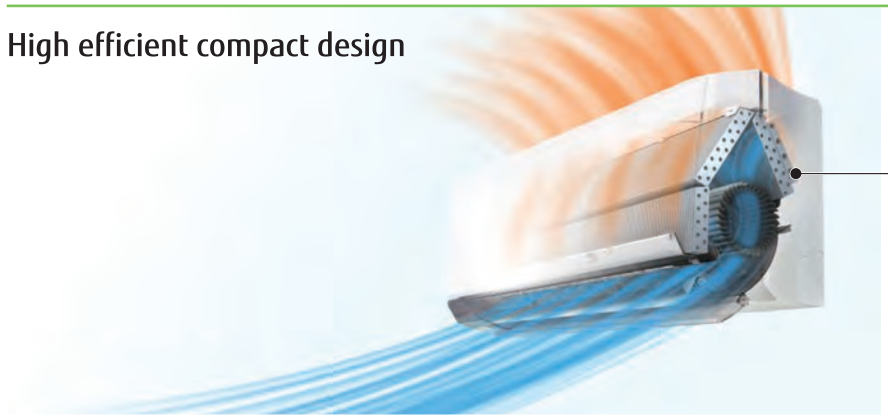
High Efficiency & Comfort

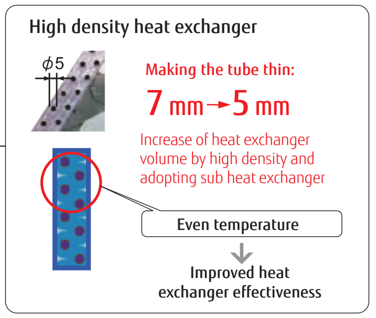
REFRIGERANT R410A

ALL DC

Economy · Diffuser · Powerful · 10°C HEAT · Low Noise · Auto Changeover · Up/Down · Adjust · Restart · Sleep · Program · Filter · ION · AF · Washable

High efficient compact design





High density heat exchanger

Making the tube thin:

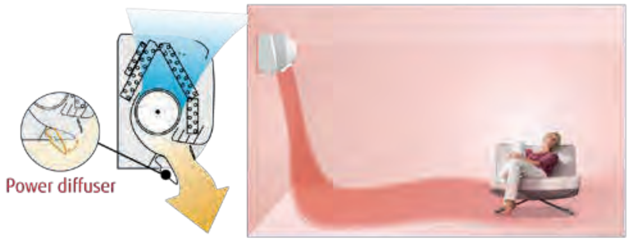
7 mm→5 mm

Increase of heat exchanger volume by high density and adopting sub heat exchanger

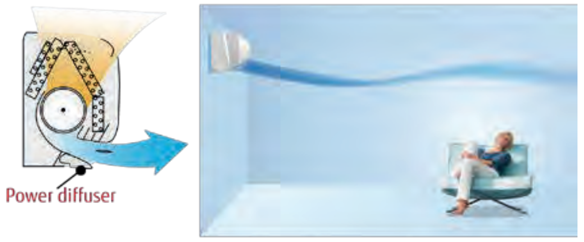
Even temperature

Improved heat exchanger effectiveness

More comfort airflow



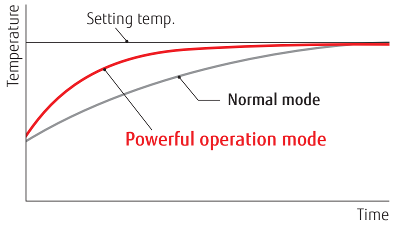
Vertical airflow provides powerful floor level heating



Horizontal airflow does not blow cool air directly at the occupants in the room.

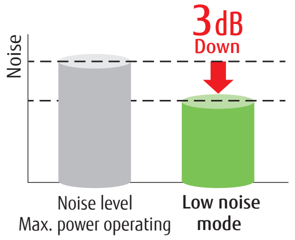
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



Low noise mode for outdoor unit

Low noise mode of outdoor unit can be selected by wireless remote controller.



Model: ASYG07LMCE / ASYG09LMCE / ASYG12LMCE / ASYG14LMCE

Wireless R.C.

For ASYG07/09/12LMCE

For ASYG14LMCE

Specifications

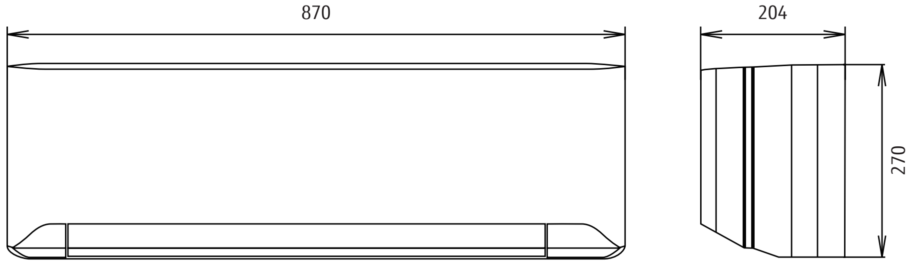
Model No.				ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
	Indoor unit			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
	Outdoor unit			AOYG07LMCE	AOYG09LMCE	AOYG12LMCE	AOYG14LMCE
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.0(0.5-3.0)	2.5(0.5-3.2)	3.4(0.9-3.9)	4.0(0.9-4.4)
	Heating			3.0(0.5-3.4)	3.2(0.5-4.0)	4.0(0.9-5.3)	5.0(0.9-6.0)
Input Power	Cooling/Heating		kW	0.465/0.685	0.65/0.73	0.97/1.02	1.135/1.365
EER	Cooling		W/W	4.30	3.85	3.50	3.52
COP	Heating			4.38	4.38	3.92	3.66
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.3	2.5/2.4	3.4/3.5	4.0/3.9
SEER	Cooling		W/W	6.80	7.00	7.00	6.90
SCOP	Heating (Average)			4.10	4.10	4.00	4.00
Energy Efficiency Class	Cooling			A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		A	6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
Annual Energy Consumption	Cooling		kWh/a	103	125	170	203
	Heating			786	820	1,225	1,365
Moisture Removal			l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/40/32/21	43/40/32/21	43/40/32/21	44/40/33/25
	Indoor (Heating)	H/M/L/Q		43/38/33/22	43/38/33/22	43/38/33/22	44/40/35/27
	Outdoor(Cooling/Heating)	High		45/45	45/45	50/50	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		59/59	59/59	59/59	60/60
	Outdoor(Cooling/Heating)	High		58/56	58/56	61/61	65/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	750/1,670	750/1,670	750/1,830	770/1,940
	Indoor / Outdoor (Heating)	High		750/1,470	750/1,470	750/1,600	770/1,700
Net Dimensions H x W x D	Indoor		mm	270×870×204	270×870×204	270×870×204	270×870×204
	Outdoor		mm	535×663×293	535×663×293	535×663×293	540×790×290
Weight	Indoor		kg(lbs)	8.5(19)	8.5(19)	8.5(19)	8.5(19)
	Outdoor		kg(lbs)	21(46)	21(46)	26(57)	34(75)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20(15)	20(15)	20(15)	20(15)
Max Height Difference				15	15	15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43	-10 to 43	-10 to 43
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A(2,088)	R410A(2,088)	R410A(2,088)	R410A(2,088)
	Charge		kg(CO2eq-T)	0.70 (1.462)	0.70 (1.462)	0.85 (1.775)	1.05 (2.192)

Optional parts

Wired Remote Controller:	UTY-RNNYM UTY-RVNYM	Network Convertor for single split (DC power supply type):	UTY-VTGX
		Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	External Connect Kit:	UTY-XWZXZ5
External Switch Controller:	UTY-TERX	Communication Kit:	UTY-XCBXZ2
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1	MODBUS® Interface:	FJ-RC-MBS-1
		KNX® Interface:	FJ-RC-KNX-1i

Dimensions

(Unit : mm)



Wall Mounted

Standard Series

Comfort for Large Room

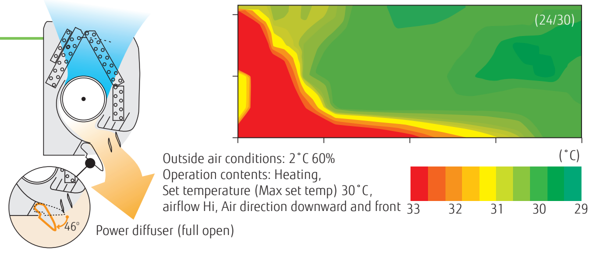
REFRIGERANT R410A

ALL DC

Economy Diffuser 10°C HEAT Auto Changeover Double Adjust Restart Sleep Program Filter ION AF Washable Blue Fin

(30)

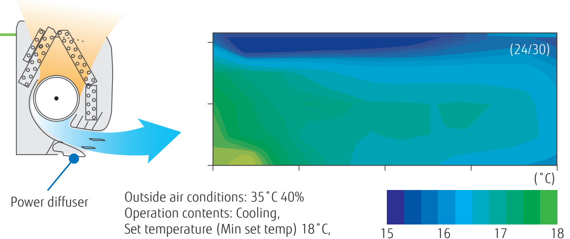
"Vertical airflow" provides powerful floor level heating



Outside air conditions: 2°C 60%
Operation contents: Heating,
Set temperature (Max set temp) 30°C,
airflow Hi, Air direction downward and front

Power diffuser (full open)

"Horizontal airflow" does not blow cool air directly at the occupants in the room



Power diffuser

Outside air conditions: 35°C 40%
Operation contents: Cooling,
Set temperature (Min set temp) 18°C,
airflow Hi, Air direction upward and front

Air conditioner filter features

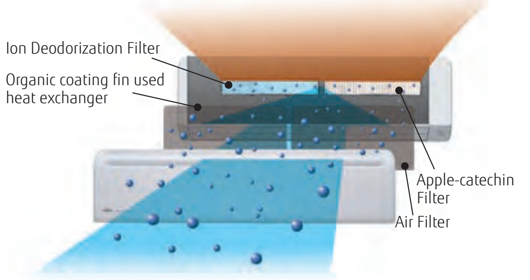
Using different filters at both sides

Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Apple-catechin Filter

The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

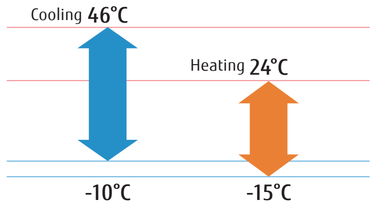


Flexible Installation

	18 model	24 model	30 model
Max. Piping Length	25 m	30 m	50 m
Max. Height	20 m	20 m	30 m

Low ambient operation

-15°C
at Heating



REFRIGERANT R410A

Model: ASYG18LFCA / ASYG24LFCC / ASYG30LFCA

Wireless R.C.

For ASYG18LFCA,
ASYG24LFCC

For ASYG30LFCA

Specifications

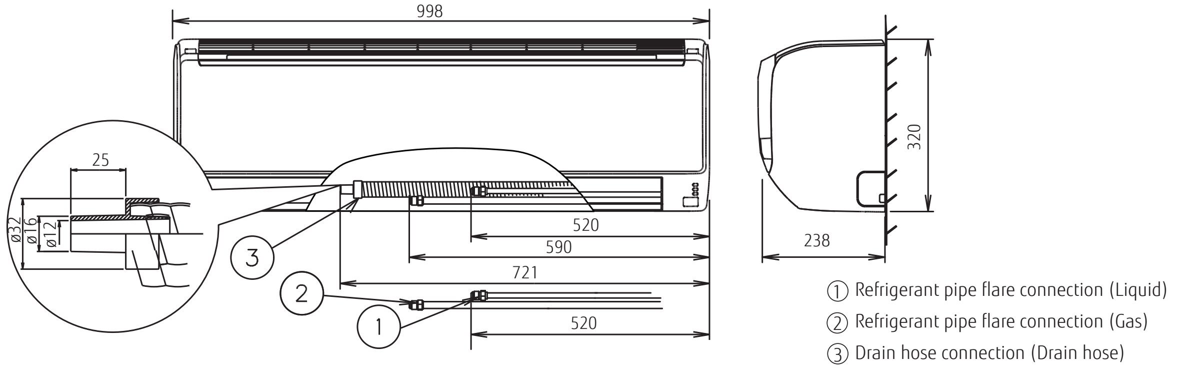
Model No.	Indoor unit			ASYG18LFCA	ASYG24LFCC	ASYG30LFCA
	Outdoor unit			AOYG18LFC	AOYG24LFCC	AOYG30LFT
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	5.2 (0.9-6.0)	7.1 (0.9-8.0)	8.0 (2.9-9.0)
	Heating			6.3 (0.9-9.1)	8.0 (0.9-10.6)	8.8 (2.2-11.0)
Input Power	Cooling/Heating		kW	1.52/1.71	2.20/2.21	2.49/2.44
EER	Cooling		W/W	3.42	3.23	3.21
COP	Heating			3.68	3.61	3.61
Pdesign	Cooling/Heating(-10°C)		kW	5.2/5.9	7.1/7.1	8.0/8.0
SEER	Cooling		W/W	6.94	6.11	5.69
SCOP	Heating (Average)			3.87	3.80	3.80
Energy Efficiency Class	Cooling			A++	A++	A+
	Heating (Average)			A	A	A
Max. Operating Current	Cooling/Heating		A	9.0/12.5	13.5/18.5	17.0/19.0
Annual Energy Consumption	Cooling		kWh/a	262	406	492
	Heating			2,130	2,610	2,941
Moisture Removal			l/h	2.6	2.7	3.2
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/37/33/26	49/42/37/32	48/42/37/33
	Indoor (Heating)	H/M/L/Q		42/37/33/25	48/42/37/32	49/42/37/33
	Outdoor(Cooling/Heating)	High		50/51	55/56	53/55
Sound Power Level	Indoor(Cooling/Heating)	High		58/58	64/64	64/64
	Outdoor(Cooling/Heating)	High		65/66	68/69	68/71
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	900/2,150	1,120/2,460	1,100/3,600
	Indoor / Outdoor (Heating)	High		900/2,070	1,120/2,340	1,150/3,600
Net Dimensions H x W x D	Indoor		mm	320×998×238	320×998×238	320×998×238
	Outdoor		mm	620×790×290	620×790×290	830×900×330
Weight	Indoor		kg(lbs)	14 (31)	14 (31)	14 (31)
	Outdoor		kg(lbs)	41 (90)	41 (90)	61 (134)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				12/16	12/16	12/16
Max Pipe Length (Pre-Charge)			m	25 (15)	30 (15)	50 (20)
Max Height Difference				20	20	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.20 (2.506)	1.80 (3.758)	2.1 (4.385)

Optional parts

Wired Remote Controller:	UTY-RNNYM UTY-RVNYM	Network Convertor for single split (DC power supply type):	UTY-VTGX
		Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	MODBUS® Interface:	FJ-RC-MBS-1
External Switch Controller:	UTY-TERX	KNX® Interface:	FJ-RC-KNX-1i
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1	External Connect Kit:	UTY-XWZX

Dimensions

(Unit : mm)



① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose connection (Drain hose)

Wall Mounted

Standard Series

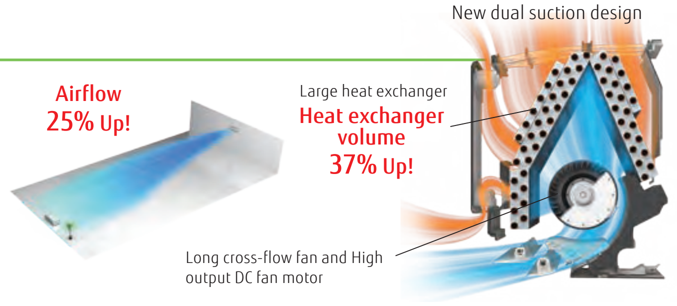
Comfort for Large Room

ALL DC

Save · Economy · Powerful · Server Room · 10°C HEAT · Low Noise · Auto Changeover · Double · Adjust · Restart · Sleep · Program · Weekly · Filter · ION · AF · Washable · Blue Fin

Large Capacity & Powerful airflow

Achieved large capacity and powerful airflow by large heat exchanger, long cross-flow fan, high output DC fan motor and new airflow structure design.

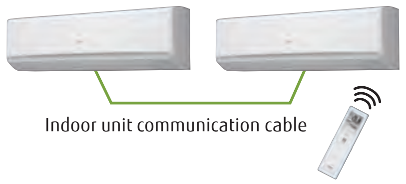


Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.

Server room function*

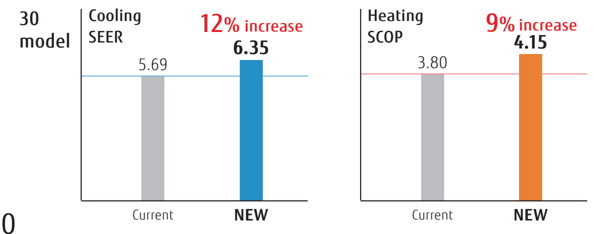
The following interlock operation is possible by connecting 2 indoor units with a cable. Cooling operation can be performed even in the low outdoor temperature and low humidity environment.



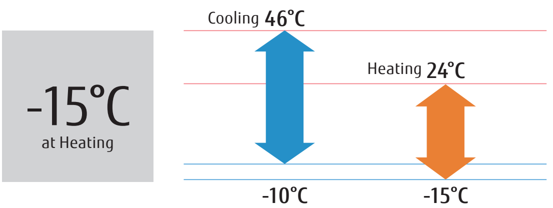
- **Alternative operation:** Two units operate alternately
- **Backup operation:** When 1 unit breaks down, the other unit starts operating automatically.
- **Supporting operation:** Both units operate simultaneously when the loaded capacity is not enough with one unit

*2 x UTY-XWNX of optional parts are required.

High seasonal energy efficiency



Low ambient operation



Model: ASYG30LMTA / ASYG36LMTA

Wireless R.C.

Specifications

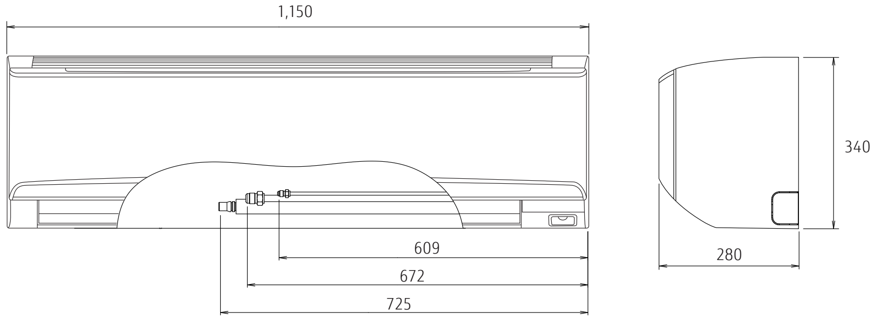
Model No.	Indoor unit			ASYG30LMTA	ASYG36LMTA
	Outdoor unit			AOYG30LMTA	AOYG36LMTA
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	8.0 (2.9-9.0)	9.4 (2.9-10.0)
	Heating			8.8 (2.2-11.0)	10.1 (2.7-11.2)
Input Power	Cooling/Heating		kW	2.33/2.41	3.16/2.96
EER	Cooling		W/W	3.43	2.97
COP	Heating			3.65	3.41
Pdesign	Cooling/Heating(-10°C)		kW	8.0/6.5	9.4/7.1
SEER	Cooling		W/W	6.35	5.73
SCOP	Heating (Average)			4.15	4.19
Energy Efficiency Class	Cooling			A++	A+
	Heating (Average)			A+	A+
Max. Operating Current	Cooling/Heating		A	14.5/14.5	19.0/19.0
Annual Energy Consumption	Cooling		kWh/a	441	575
	Heating			2,193	2,373
Moisture Removal			l/h	2.7	3.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	50/44/38/31	50/44/38/31
	Indoor (Heating)	H/M/L/Q		49/44/39/33	49/44/39/33
	Outdoor(Cooling/Heating)	High		52/55	55/56
Sound Power Level	Indoor(Cooling/Heating)	High		65/65	65/65
	Outdoor(Cooling/Heating)	High		67/68	68/70
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,380/3,600	1,380/3,800
	Indoor / Outdoor (Heating)	High		1,380/3,600	1,380/3,800
Net Dimensions H x W x D	Indoor		mm	340×1,150×280	340×1,150×280
	Outdoor		mm	830×900×330	830×900×330
Weight	Indoor		kg(lbs)	18 (40)	18 (40)
	Outdoor		kg(lbs)	61 (134)	61 (134)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	50 (20)	50 (20)
Max Height Difference				30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	2.10 (4.385)	2.10 (4.385)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFNXZ1	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	External input and output PCB:	UTY-XCSXZ2
	UTY-RNNYM	KNX® Convertor:	UTY-VKSX	External input and output PCB Box:	UTZ-GXXB
Wired Remote Controller:	UTY-RVNYM	MODBUS® Convertor:	UTY-VMSX	External Connect Kit:	UTY-XWZX
Simple Remote Controller (Without operation mode):	UTY-RHRY	Communication kit	UTY-XWNX	Communication Kit:	UTY-TWRX
Simple Remote Controller:	UTY-RSRY	MODBUS® Interface:	FJ-RC-MBS-1		
	UTY-RSNYM	KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



Wall Mounted

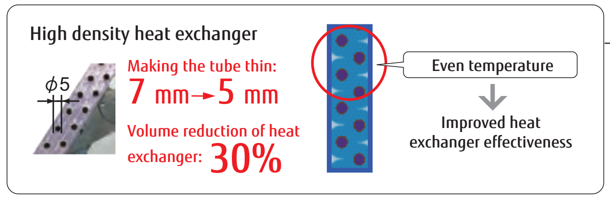
ECO Series

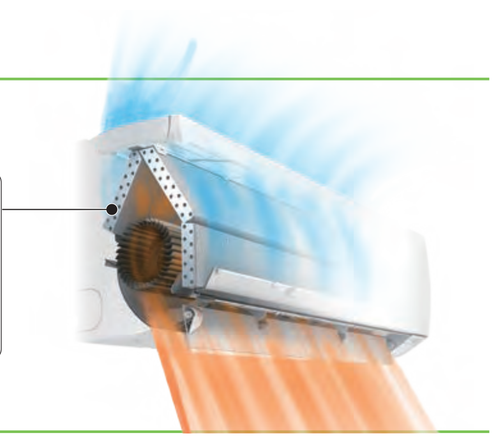
Compact & Comfort

ALL DC

Economy Powerful Auto Changeover Up/Down Adjust Restart Sleep Program Filter Washable

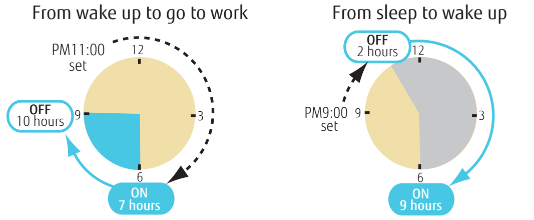
High efficient compact design





ON-OFF Programmable timer

You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

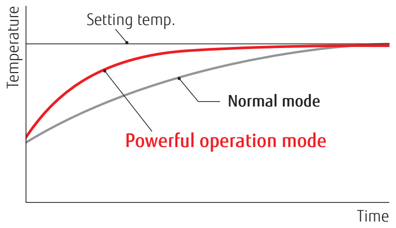


ON-OFF timer

OFF-ON timer

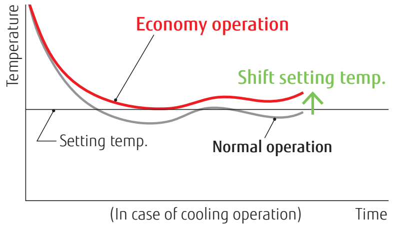
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

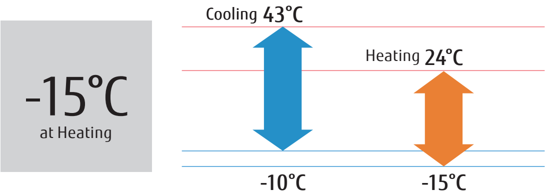


Economy operation

Setting temp. is shifted by 1°C automatically.



Low ambient operation



Model: ASYG07LLCE / ASYG09LLCE / ASYG12LLCE

Wireless R.C.

Specifications

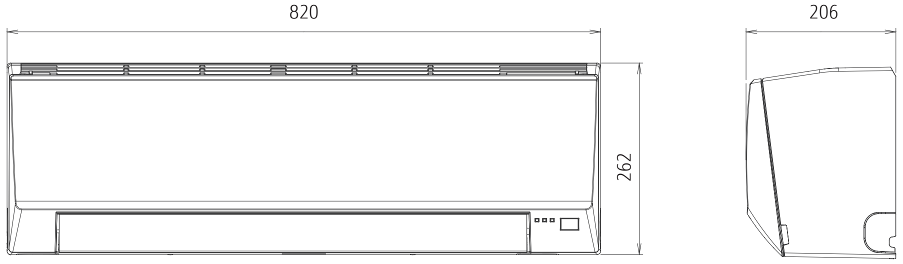
Model No.	Indoor unit			ASYG07LLCE	ASYG09LLCE	ASYG12LLCE
	Outdoor unit			AOYG07LLCE	AOYG09LLCE	AOYG12LLCE
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	2.0(0.9-2.8)	2.5(0.9-3.0)	3.4(0.9-3.8)
	Heating			2.7(0.9-3.6)	3.0(0.9-3.8)	4.0(0.9-5.0)
Input Power	Cooling/Heating		kW	0.470/0.620	0.730/0.740	1.080/1.130
EER	Cooling		W/W	4.26	3.42	3.15
COP	Heating			4.35	4.05	3.54
Pdesign	Cooling/Heating(-10°C)		kW	2.0/2.2	2.5/2.3	3.4/3.2
SEER	Cooling		W/W	6.70	6.90	6.60
SCOP	Heating (Average)			4.00	4.00	3.80
Energy Efficiency Class	Cooling			A++	A++	A++
	Heating (Average)			A+	A+	A
Max. Operating Current	Cooling/Heating		A	6.0/7.5	6.0/7.5	6.5/9.0
Annual Energy Consumption	Cooling		kWh/a	104	127	180
	Heating			770	805	1,179
Moisture Removal			l/h	1.0	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/38/33/22	43/38/33/22	43/38/33/22
	Indoor (Heating)	H/M/L/Q		43/38/33/22	43/38/33/22	43/38/33/22
	Outdoor(Cooling/Heating)	High		47/48	47/48	50/51
Sound Power Level	Indoor(Cooling/Heating)	High		59/60	59/60	59/60
	Outdoor(Cooling/Heating)	High		61/61	61/61	65/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	720/1,670	720/1,670	720/1,830
	Indoor / Outdoor (Heating)	High		740/1,470	740/1,470	740/1,600
Net Dimensions H x W x D	Indoor		mm	262×820×206	262×820×206	262×820×206
	Outdoor		mm	535×663×293	535×663×293	535×663×293
Weight	Indoor		kg(lbs)	7.0 (15)	7.0 (15)	7.0 (15)
	Outdoor		kg(lbs)	24 (53)	24 (53)	26 (57)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)				11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max Pipe Length (Pre-Charge)			m	20(15)	20(15)	20(15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43	-10 to 43
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A(2,088)	R410A(2,088)	R410A(2,088)
	Charge		kg(CO2eq-T)	0.65(1.357)	0.65(1.357)	0.85(1.775)

Optional parts

Remote Controller Holder: UTZ-RXLA

Dimensions

(Unit : mm)



Compact Cassette

Compact 4-way Flow Series

Compact & Comfort

ALL DC

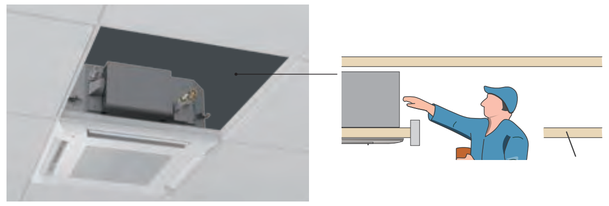
Economy | 10°C HEAT | Auto Changeover | Up/Down | Adjust | Restart | Auto OFF | Weekly | Sleep | Program | Filter | On/Off | Drain Pump

Compact and stylish panel design

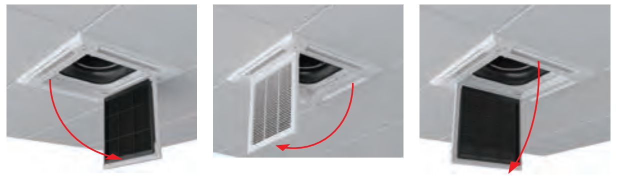
Compact and stylish panel design fits the grid type ceiling.
It is a linear design suitable for grid shape of 620 mm × 620 mm grid ceiling.

Easy maintenance

Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.



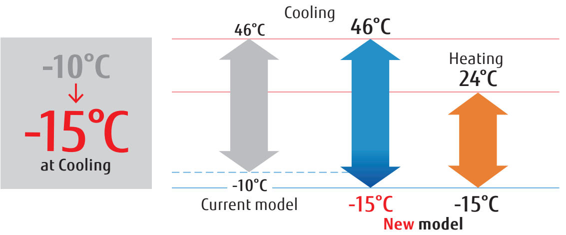
The air inlet grill can be installed in various directions, so maintenance is easy.



Flexible installation

It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.

Low ambient operation



Model: AUXG09KVLA / AUXG12KVLA / AUXG14KVLA / AUXG18KVLA / AUXG22KVLA / AUXG24KVLA

For AUXG9/12/14KVLA　For AUXG18/22KVLA　For AUXG24KVLA

Specifications

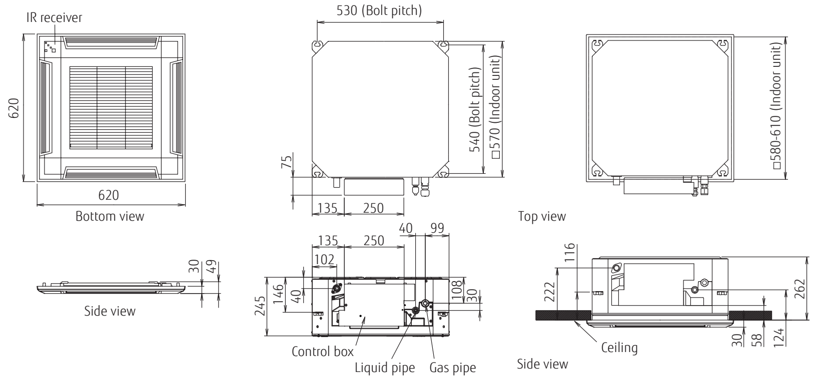
Model No.	Indoor unit			AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
	Outdoor unit			AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB
Power Source				Single phase, ~230V, 50Hz					
Capacity	Cooling		kW	2.5 (0.9-3.2)	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)
	Heating			3.2 (0.9-4.7)	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)
Input Power	Cooling/Heating		kW	0.55/0.79	0.93/1.08	1.28/1.32	1.60/1.66	1.82/1.87	2.21/2.03
EER	Cooling		W/W	4.57	3.76	3.36	3.25	3.30	3.08
COP	Heating			4.05	3.80	3.79	3.61	3.74	3.69
Pdesign	Cooling/Heating(-10°C)		kW	2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4	6.0/4.8	6.8/6.0
SEER	Cooling		W/W	6.70	6.60	6.50	6.60	6.60	6.10
SCOP	Heating (Average)			4.40	4.30	4.40	4.20	4.30	4.00
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		A	7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6
Annual Energy Consumption	Cooling		kWh/a	131	186	231	275	318	390
	Heating			826	1,106	1,208	1,466	1,562	2,097
Moisture Removal			l/h	0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/31/29/27	37/34/30/27	38/34/30/27	38/34/30/26	44/42/36/30	49/44/36/30
	Indoor (Heating)	H/M/L/Q		34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
	Outdoor(Cooling/Heating)	High		46/46	47/47	49/49	50/50	51/51	53/54
Sound Power Level	Indoor(Cooling/Heating)	High		46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor(Cooling/Heating)	High		59/59	61/61	62/62	62/62	63/63	65/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	540/1,480	600/1,580	680/1,670	680/2,160	830/2,240	930/2,700
	Indoor / Outdoor (Heating)	High		540/1,410	600/1,520	800/1,580	800/1,830	860/1,960	930/2,700
Net Dimensions H x W x D	Indoor		mm	245x570x570	245x570x570	245x570x570	245x570x570	245x570x570	245x570x570
	Outdoor		mm	542x799x290	542x799x290	542x799x290	632x799x290	632x799x290	716x820x315
Weight	Indoor		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
	Outdoor		kg(lbs)	32 (71)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	20 (15)	25 (15)	25 (15)	30 (20)	30 (20)	30 (20)
Max Height Difference				15	20	20	20	25	25
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	1.25 (0.844)	1.25(0.844)
Cassette Grille	Model name			UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
	Dimensions (H × W × D)		mm	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620
	Weight		kg(lbs)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	Insulation Kit For High Humidity:	UTZ-KXGC
	UTY-RNNYM	KNX® Convertor:	UTY-VKSX	Fresh Air Intake Kit:	UTZ-VXAA
	UTY-RVNYM	MODBUS® Convertor:	UTY-VMSX	External input and output PCB:	UTY-XCSX
Simple Remote Controller (Without operation mode):	UTY-RHRY	Air Outlet Shutter Plate:	UTR-YDZB	External input and output PCB Box:	UTZ-GXRA
Simple Remote Controller:	UTY-RSRY	External Connect Kit:	UTY-XWZXZG	Cassette Grille:	UTG-UFYF-W
	UTY-RSNYM	MODBUS® Interface:	FJ-RC-MBS-1		
Wireless Remote Controller:	UTY-LNTY	KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



Compact Cassette

Compact 4-way Flow Series

Compact & Comfort

Economy 10°C HEAT Auto Changeover Up/Down Adjust Restart Sleep Program Filter Drain Pump

2-stage turbo fan

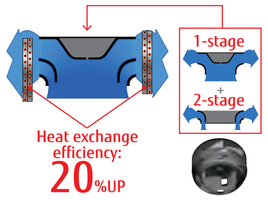
High efficiency design by 2 stage structure

Previous turbo fan

In the case of a conventional fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

2-stage turbo fan

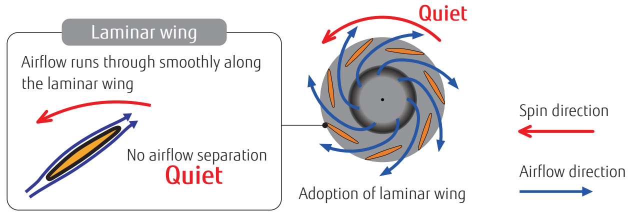
An evenly spread air distribution across the heat exchanger is possible due to the 2 stage turbo fan which produces two separate airflow streams.



Quiet quality

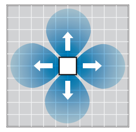
Optimized wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

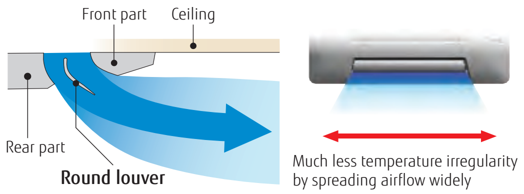


Improvement of the airflow distribution

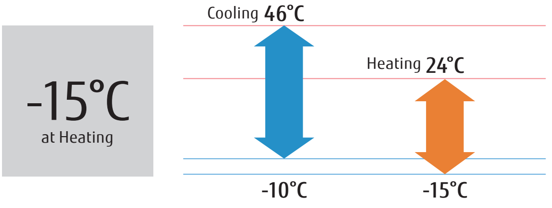
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide airflow distribution.



Bottom view



Low ambient operation



Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA

Wireless R.C.

For AUYG12/14LVLB

For AUYG18LVLB

For AUYG24LVLA

Specifications

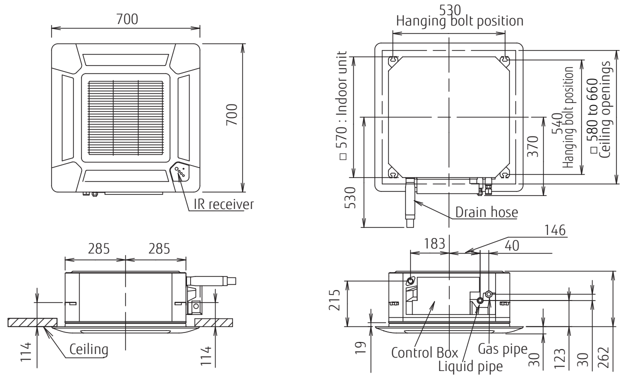
Model No.	Indoor unit			AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA
	Outdoor unit			AOYG12LALL	AOYG14LALL	AOYG18LBCB	AOYG24LBCB
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating			4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating		kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.26
EER	Cooling		W/W	3.33	3.21	3.21	3.08
COP	Heating			3.69	3.71	3.61	3.54
Pdesign	Cooling/Heating(-10°C)		kW	3.5/4.2	4.3/4.5	5.2/5.2	6.8/6.0
SEER	Cooling		W/W	6.20	6.40	6.20	5.60
SCOP	Heating (Average)			4.10	4.40	4.20	3.90
Energy Efficiency Class	Cooling			A++	A++	A++	A+
	Heating (Average)			A+	A+	A+	A
Max. Operating Current	Cooling/Heating		A	7.5/10.0	9.0/12.5	11.5/13.5	14.7/15.7
Annual Energy Consumption	Cooling		kWh/a	198	235	293	425
	Heating			1,431	1,432	1,732	2,151
Moisture Removal			l/h	1.2	1.5	2.2	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
	Indoor (Heating)	H/M/L/Q		37/34/31/29	43/38/34/30	43/38/34/30	49/45/40/33
	Outdoor(Cooling/Heating)	High		47/48	49/49	50/50	53/54
Sound Power Level	Indoor(Cooling/Heating)	High		49/49	50/55	50/55	59/61
	Outdoor(Cooling/Heating)	High		61/63	62/64	62/65	66/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	600/1,780	680/1,910	680/2,380	930/2,850
	Indoor / Outdoor (Heating)	High		600/1,630	800/1,740	800/2,080	930/2,700
Net Dimensions H x W x D	Indoor		mm	245×570×570	245×570×570	245×570×570	245×570×570
	Outdoor		mm	578×790×300	578×790×300	632×799×290	716×820×315
Weight	Indoor		kg(lbs)	15 (33)	15 (33)	15 (33)	16 (35)
	Outdoor		kg(lbs)	40 (88)	40 (88)	36 (79)	42 (93)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)	25 (15)	30 (15)
Max Height Difference				15	15	15	20
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.15 (2.401)	1.25 (2.610)	1.20 (2.506)	1.50 (3.132)
Cassette Grille	Model name			UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W
	Dimensions (H × W × D)		mm	49×700×700	49×700×700	49×700×700	49×700×700
	Weight		kg(lbs)	2.6 (6)	2.6 (6)	2.6 (6)	2.6 (6)

Optional parts

Wired Remote Controller:	UTY-RNNYM UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1
External Switch Controller:	UTY-TERX
External Connect Kit:	UTY-XWZX
Insulation Kit For High Humidity:	UTZ-KXGC
Fresh Air Intake Kit:	UTZ-VXAA
Cassette Grille:	UTG-UFYD-W
Network Convertor for single split (DC power supply type):	UTY-VTGX
Network Convertor for single split (AC power supply type):	UTY-VTGXV
Air Outlet Shutter Plate:	UTR-YDZB
MODBUS® Interface:	FJ-RC-MBS-1
KNX® Interface:	FJ-RC-KNX-1i

Dimensions

(Unit : mm)



Cassette

Circular Flow Series

Comfort for Large Room


UTG-UKYA-B
Black Color Grille

ALL DC

Economy | Set Temp. | Return | Auto Changeover | Up/Down | Adjust | Restart | Duct | Distributing | Individual | Auto OFF | Weekly | Filter | On/Off | Drain Pump | Blue Fin (30/36/45/54)

Unique Circular Flow design

Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, turbo fan and unique seamless airflow louver design.


Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.


Efficient air conditioning based on the room layout

Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.
*Touch Panel Wired RC (UTY-RNRYZ3)only

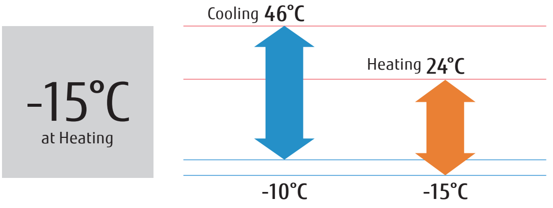
Human sensor increases more energy saving
Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

Compact and lightweight outdoor unit

45/54 models outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.

R410A model
R32 model

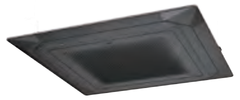
Low ambient operation



Various Cassette Grille

Both, black and white color grilles are available.
There are three types: white color grille with Remote Controller, only white color grille and only black color grille.
Selectable according to the atmosphere and/or usage of the room.


UTG-UKYA-W
White Color Grille
With touch panel wired remote controller


UTG-UKYA-B
Black Color Grille


UTG-UKYC-W
White Color Grille

Model: AUXG18KRLB / AUXG22KRLB / AUXG24KRLB / AUXG30KRLB / AUXG36KRLB / AUXG45KRLB / AUXG54KRLB
NEW AUXG36KRLB [3 phase] / NEW AUXG45KRLB [3 phase] / NEW AUXG54KRLB [3 phase]


AUXG18/22/24KRLB
AUXG30/36/45/54KRLB


For AUXG18/22KRLB
For AUXG24KRLB
For AUXG30/36KRLB
For AUXG45/54KRLB

Specifications

Model No.			Indoor unit	AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
			Outdoor unit	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Power Source				Single phase, ~230V, 50Hz							3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating			6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating		kW	1.36/1.58	1.71/1.82	1.89/1.90	2.44/2.51	2.91/2.45	3.61/3.21	4.41/4.16	2.91/2.45	3.61/3.21	4.41/4.16
EER	Cooling		W/W	3.82	3.51	3.60	3.49	3.26	3.35	3.04	3.26	3.35	3.04
COP	Heating			3.80	3.85	3.95	3.98	4.40	4.20	3.73	4.40	4.20	3.73
Pdesign	Cooling/Heating(-10°C)		kW	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	-	9.5 / 8.7	-	-
SEER	Cooling		W/W	7.00	7.00	6.60	6.70	6.55	-	-	6.55	-	-
SCOP	Heating (Average)			4.30	4.40	4.20	4.30	4.30	-	-	4.30	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	-	-	A++	-	-
	Heating (Average)			A+	A+	A+	A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	260	300	360	444	507	-	-	507	-	-
	Heating			1,431	1,527	1,999	2,601	2,828	-	-	2,828	-	-
Moisture Removal			l/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)	H/M/L/Q		33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35	47/43/40/36
	Outdoor(Cooling/Heating)	High		50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59
Sound Power Level	Indoor(Cooling/Heating)	High		47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	60/60	61/61
	Outdoor(Cooling/Heating)	High		62/62	63/63	65/66	68/69	70/70	71/71	73/73	70/70	71/71	73/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,050/2,160	1,050/2,240	1,150/2,700	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450	2,100/4,450
	Indoor / Outdoor (Heating)	High		1,050/1,830	1,050/1,960	1,150/2,700	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450	2,100/4,450
Net Dimensions H x W x D	Indoor		mm	246x840x840	246x840x840	246x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840
	Outdoor		mm	632x799x290	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320	998x940x320	788x940x320	998x940x320	998x940x320
Weight	Indoor		kg(lbs)	23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)
	Outdoor		kg(lbs)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max Height Difference				20	25	25	30	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	1.02 (0.689)	1.25 (0.844)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.70(1.823)
Cassette Grille	Variation			UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color							UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color		
	Dimensions (H × W × D)		mm	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950
	Weight		kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

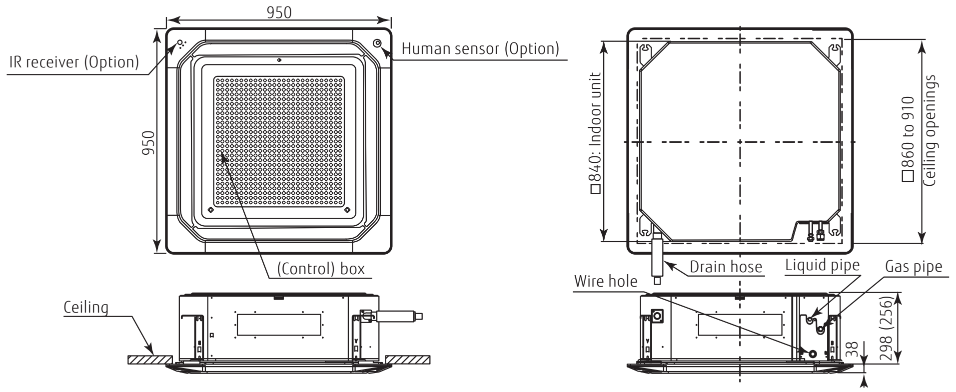
*1: IR Receiver kit and human sensor kit cannot be connected.

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3
Wired Remote Controller:	UTY-RLRY UTY-RNNYM UTY-RVNYM
Simple Remote Controller (Without operation mode):	UTY-RHRY
Simple Remote Controller:	UTY-RSRY UTY-RSNYM
Human Sensor Kit:	UTY-SHZXC
External Switch Controller:	UTY-TERX
External Connect Kit:	UTY-XWZXZG
Wireless LAN Interface:	UTY-TFSXZ1 FJ-RC-WIFI-1
KNX® Convertor:	UTY-VKSX
MODBUS® Convertor:	UTY-VMSX
External input and output PCB:	UTY-XCSX
External input and output PCB Box:	UTZ-GXRA
Insulation Kit For High Humidity:	UTZ-KXRA
Fresh Air Intake Kit:	UTZ-VXRA
Wide Panel:	UTG-AKXA-W
Panel Spacer:	UTG-BKXA-W
IR Receiver Unit	UTY-LBTYC
Cassette Grille:	UTG-UKYA-B UTG-UKYA-W UTG-UKYC-W
Air Outlet Shutter Plate:	UTR-YDZK
Network Convertor for single split (DC power supply type):	UTY-VTGX
Network Convertor for single split (AC power supply type):	UTY-VTGXV
MODBUS® Interface:	FJ-RC-MBS-1
KNX® Interface:	FJ-RC-KNX-1i
(Outdoor unit 30/36/45/54)	
External Connect Kit:	UTY-XWZXZ3

Dimensions

(Unit : mm)



( ) : AUXG18/22/24KRLB

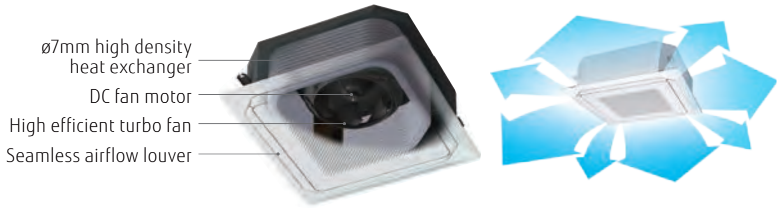
Cassette
Circular Flow Series
Comfort for Large Room

ALL DC

Economy · Set Temp. · Return · Auto Changeover · Up/Down · Adjust · Restart · Duct · Distributing · Individual · Auto OFF · Weekly · Filter · On/Off · Drain Pump · Blue Fin (30/36/45/54)

Unique Circular Flow design

Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, turbo fan and unique seamless airflow louver design.



Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.

*Touch Panel Wired RC (UTY-RNRYZ3)only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Efficient air conditioning based on the room layout

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

Human sensor (Option)

2 modes can be selected.

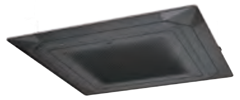
Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

*Touch Panel Wired RC (UTY-RNRYZ3) only

Various Cassette Grille

Both, black and white color grilles are available.
There are three types: white color grille with Remote Controller, only white color grille and only black color grille.
Selectable according to the atmosphere and/or usage of the room.

UTG-UKYA-W
White Color Grille
With touch panel wired remote controller



UTG-UKYA-B
Black Color Grille

UTG-UKYC-W
White Color Grille

Model: AUXG18LRLB / AUXG24LRLB
AUXG30LRLB / AUXG36LRLB / AUXG45LRLB / AUXG54LRLB

AUXG18/24LRLB

AUXG30/36/45/54LRLB

Touch Panel Wired R.C.

For AUXG18/24LRLB

For AUXG30/36LRLB

For AUXG45/54LRLB

Specifications

Model No.				AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB
	Indoor unit			AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB
	Outdoor unit			AOYG18LBCA	AOYG24LBCA	AOYG30LBTA	AOYG36LBTA	AOYG45LBTA	AOYG54LBTA
Power Source				Single phase, ~230V, 50Hz					
Capacity	Cooling		kW	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)
	Heating			6.0 (0.9-8.0)	7.8 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	14.0 (4.2-16.2)	15.8 (4.7-16.5)
Input Power	Cooling/Heating		kW	1.42/1.50	2.16/2.18	2.56/2.77	2.96/2.91	3.85/3.73	4.38/4.58
EER	Cooling		W/W	3.66	3.15	3.32	3.21	3.25	3.04
COP	Heating			4.00	3.58	3.61	3.71	3.75	3.45
Pdesign	Cooling/Heating(-10°C)		kW	5.2/4.3	6.8/6.0	8.5/8.0	9.5/8.7	-	-
SEER	Cooling		W/W	7.05	6.60	6.70	6.40	-	-
SCOP	Heating (Average)			4.40	4.20	4.30	4.30	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	-	-
	Heating (Average)			A+	A+	A+	A+	-	-
Max. Operating Current	Cooling/Heating		A	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	20.5/20.5	21.5/21.5
Annual Energy Consumption	Cooling		kWh/a	258	361	444	519	-	-
	Heating			1,367	1,999	2,604	2,833	-	-
Moisture Removal			l/h	2.2	2.7	2.5	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)	H/M/L/Q		33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36
	Outdoor(Cooling/Heating)	High		51/50	55/56	53/55	54/55	55/55	55/57
Sound Power Level	Indoor(Cooling/Heating)	High		47/47	49/49	54/54	58/58	60/60	61/61
	Outdoor(Cooling/Heating)	High		64/62	68/68	67/69	68/70	68/68	69/71
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,050/1,900	1,150/2,460	1,600/3,600	1,900/3,800	2,000/6,750	2,100/6,750
	Indoor / Outdoor (Heating)	High		1,050/1,700	1,150/2,340	1,600/3,600	1,900/3,800	2,000/6,200	2,100/6,850
Net Dimensions H x W x D	Indoor		mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840
	Outdoor		mm	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
Weight	Indoor		kg(lbs)	24 (53)	24 (53)	26 (57)	26 (57)	29 (64)	29 (64)
	Outdoor		kg(lbs)	41 (90)	41 (90)	61 (134)	61 (134)	86 (190)	86 (190)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.7	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)
Max Height Difference				20	20	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.80 (3.758)	1.80 (3.758)	2.10 (4.385)	2.10 (4.385)	3.35 (6.995)	3.35 (6.995)
Cassette Grille	Variation			UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color					
	Dimensions (H × W × D)		mm	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950
	Weight		kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

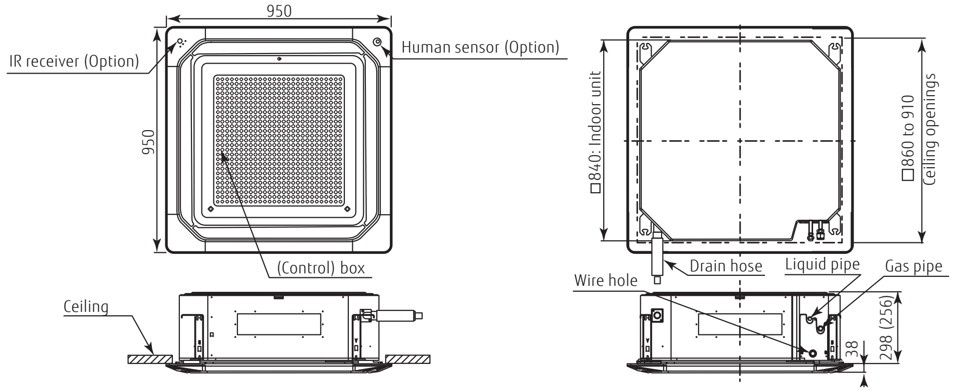
*1: IR Receiver kit and human sensor kit cannot be connected.

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	Wireless LAN Interface:	UTY-TFNXZ1	Cassette Grille:	UTG-UKYA-B
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3		FJ-RC-WIFI-1		UTG-UKYA-W
Wired Remote Controller:	UTY-RLRY	KNX® Convertor:	UTY-VKSX		UTG-UKYC-W
	UTY-RNNYM	MODBUS® Convertor:	UTY-VMSX	Air Outlet Shutter Plate:	UTR-YDZK
	UTY-RVNYM	External input and output PCB:	UTY-XCSX	MODBUS® Interface:	FJ-RC-MBS-1
Simple Remote Controller (Without operation mode):	UTY-RHRY	External input and output PCB Box:	UTZ-GXRA	KNX® Interface:	FJ-RC-KNX-1i
Simple Remote Controller:	UTY-RSRY	Insulation Kit For High Humidity:	UTZ-KXRA	Network Convertor for single split (DC power supply type):	UTY-VTGX
	UTY-RSNYM	Fresh Air Intake Kit:	UTZ-VXRA	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Human Sensor Kit:	UTY-SHZXC	Wide Panel:	UTG-AKXA-W		
External Switch Controller:	UTY-TERX	Panel Spacer:	UTG-BKXA-W	**(Outdoor unit 45/54)**	
External Connect Kit:	UTY-XWZXZG	IR Receiver Unit	UTY-LBTYC	External Connect Kit:	UTY-XWZXZ3

Dimensions

(Unit : mm)



( ): AUXG18/24LRLB

REFRIGERANT R410A

Cassette

4-way Flow Series

Comfort for large room

REFRIGERANT R410A

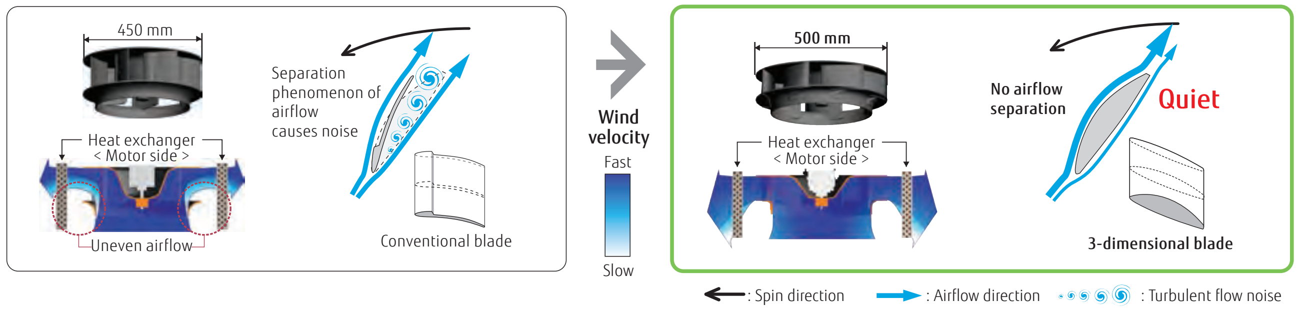
ALL DC

Economy | Auto Changeover | Up/Down | Adjust | Restart | Duct | Distributing | W+ +Setback | Filter | Drain Pump | Blue Fin (45/54)

High efficiency turbo fan with 3-dimensional blade

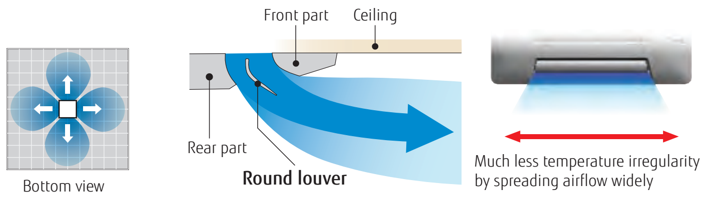
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

New turbo fan: High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



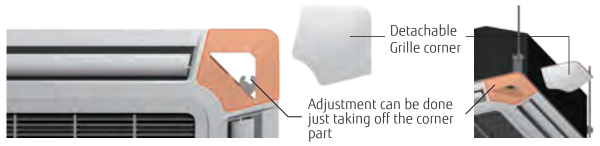
Improvement of the airflow distribution

The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide airflow distribution.

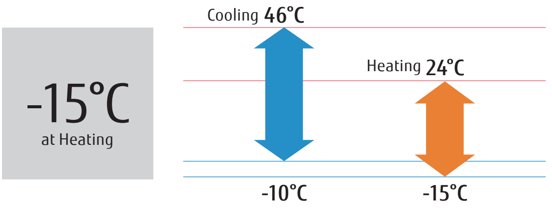


Adjustment of hanger position is possible after installation.

Hanging bracket can be checked directly by removing the corner cover. Hanging position can be arranged easily.



Low ambient operation



Model : AUYG30LRLE / AUYG36LRLE / AUYG45LRLA / AUYG54LRLA / AUYG36LRLA [3 phase] / AUYG45LRLA [3 phase] / AUYG54LRLA [3 phase]

Wired R.C.

For AUYG30/36LRLE

For AUYG45LRLA
(Single phase)

For AUYG36/45/54LRLA

Specifications

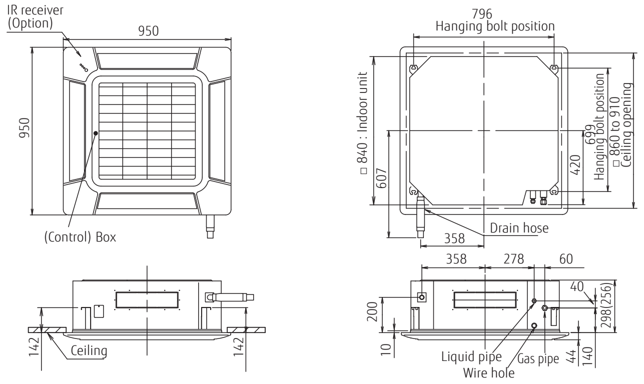
Model No.			Indoor unit	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA	AUYG45LRLA	AUYG54LRLA	AUYG36LRLA	AUYG45LRLA	AUYG54LRLA
			Outdoor unit	AOYG30LETL	AOYG36LETL	AOYG45LBTC	AOYG45LETL	AOYG54LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source				Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	8.5 (2.8-10.0)	10.0 (2.8-11.2)	12.1 (4.0-13.5)	12.5 (4.0-14.0)	13.3 (4.5-14.5)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)
	Heating			10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.5 (4.2-15.7)	14.0 (4.2-16.2)	16.0 (4.7-16.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)
Input Power	Cooling/Heating		kW	2.65/2.77	3.12/3.02	3.89/3.85	3.88/3.77	4.42/4.69	2.44/2.56	3.54/3.58	4.36/4.43
EER	Cooling		W/W	3.21	3.21	3.11	3.22	3.01	4.10	3.53	3.21
COP	Heating			3.61	3.71	3.51	3.71	3.41	4.38	3.91	3.61
Pdesign	Cooling/Heating(-10°C)		kW	8.5/8.0	10.0/8.7	-	-	-	10.0/10.0	-	-
SEER	Cooling		W/W	6.50	6.30	-	-	-	6.50	-	-
SCOP	Heating (Average)			4.30	4.20	-	-	-	4.30	-	-
Energy Efficiency Class	Cooling			A++	A++	-	-	-	A++	-	-
	Heating (Average)			A+	A+	-	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	17.0/17.0	18.5/20.0	23.5/23.5	20.5/20.5	21.5/21.5	7.9/7.9	8.9/8.9	9.9/9.9
Annual Energy Consumption	Cooling		kWh/a	458	555	-	-	-	538	-	-
	Heating			2,604	2,897	-	-	-	3,253	-	-
Moisture Removal			l/h	2.5	3.5	4.5	4.5	5.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	40/38/36/32	43/38/36/32	46/42/40/36	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Indoor (Heating)	H/M/L/Q		40/38/36/32	43/38/36/32	46/42/40/36	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Outdoor(Cooling/Heating)	High		53/55	54/55	58/58	55/55	55/57	51/53	54/54	55/56
Sound Power Level	Indoor(Cooling/Heating)	High		54/54	57/57	-	-	-	58/58	-	-
	Outdoor(Cooling/Heating)	High		68/69	69/70	-	-	-	67/69	-	-
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,600/3,600	1,800/3,800	1,900/4,650	1,900/6,750	2,000/6,750	1,800/6,200	1,900/6,750	2,000/6,900
	Indoor / Outdoor (Heating)	High		1,600/3,600	1,800/3,800	1,900/4,650	1,900/6,200	2,000/6,850	1,800/6,200	1,900/6,200	2,000/6,900
Net Dimensions H x W x D	Indoor		mm	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840
	Outdoor		mm	830×900×330	830×900×330	914×970×370	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
Weight	Indoor		kg(lbs)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)
	Outdoor		kg(lbs)	61 (134)	61 (134)	75 (165)	86 (190)	86 (190)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0
Max Pipe Length (Pre-Charge)			m	50 (20)	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference				30	30	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	2.10 (4.385)	2.10 (4.385)	2.90 (6.055)	3.35 (6.995)	3.35 (6.995)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)
Cassette Grille	Model name			UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W
	Dimensions (H × W × D)		mm	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950
	Weight		kg(lbs)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)

Optional parts

Part	Model	Part	Model	Part	Model
Wired Remote Controller:	UTY-RNNYM UTY-RVNYM	Insulation Kit For High Humidity:	UTZ-KXGA	Network Convertor for single split (DC power supply type):	UTY-VTGX
Simple Remote Controller:	UTY-RSNYM	Fresh Air Intake Kit:	UTZ-VXGA	Network Convertor for single split (AC power supply type):	UTY-VTGXV
External Switch Controller:	UTY-TERX	External Connect Kit:	UTD-ECS5A	Cassette Grille:	UTG-UGYA-W
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1	Wide Panel:	UTG-AGYA-W		
IR Receiver Unit:	UTY-LRHYA2	Panel Spacer:	UTG-BGYA-W	**(Outdoor unit 36/45/54)**	
External Connect Kit:	UTY-XWZX	Air Outlet Shutter Plate:	UTR-YDZC	External Connect Kit:	UTY-XWZXZ2
		MODBUS® Interface:	FJ-RC-MBS-1		
		KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



Mini Duct

Built-in Drain Pump

REFRIGERANT R410A

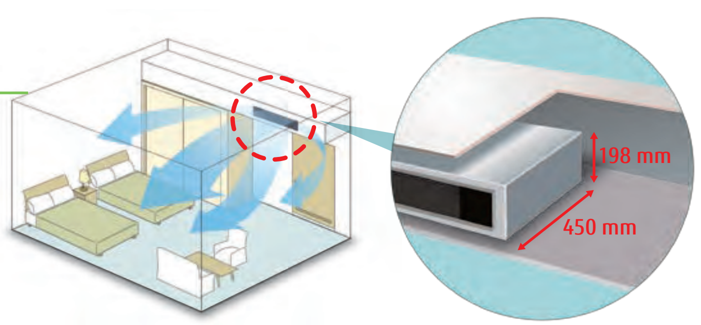
ALL DC

Economy | Set Temp. | Return | Auto Changeover | Adjust | Restart | Auto OFF | Weekly | Filter | On/Off | Drain Pump

Large living space available

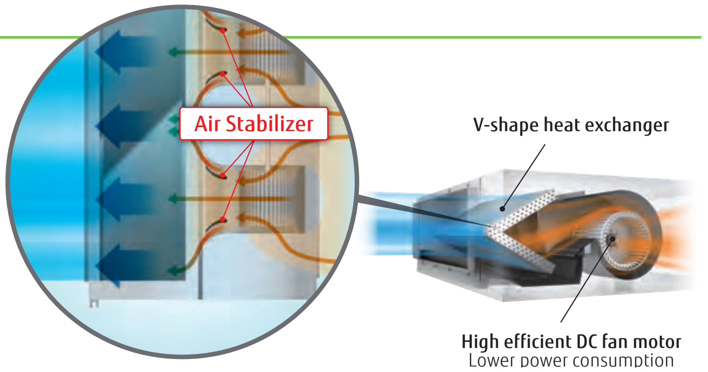
- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Lightweight: 15.5 kg 18% down (12/14 models*)

*:Compared with Slim duct 12/14models.



Optimum airflow path and low noise operation

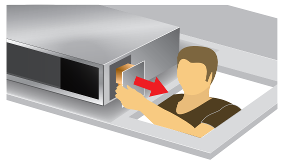
Low noise is realized drastically by stabilized airflow design.



Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*.
The change of static pressure range is possible by remote controller.
*12 model: 0 to 30 Pa.

Built-in drain pump as standard:
Maintenance is easy



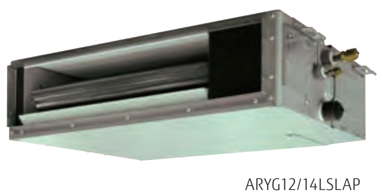
Parts can be replaced from the side of the body where maintenance is easier.

Auto Louver Grille Kit (Option)

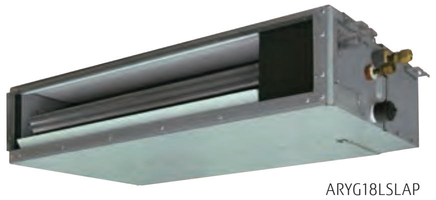
- Thin design provides a comfortable living environment over a wide area.
- Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)

REFRIGERANT R410A

Model : ARYG12LSLAP / ARYG14LSLAP / ARYG18LSLAP



ARYG12/14LSLAP



ARYG18LSLAP

Wired R.C.

For ARYG12/14LSLAP

For ARYG18LSLAP

Specifications

Model No.				ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
	Indoor unit			ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
	Outdoor unit			AOYG12LALL	AOYG14LALL	AOYG18LBCB
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating			4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating		kW	1.03/1.15	1.34/1.49	1.62/1.77
EER	Cooling		W/W	3.40	3.21	3.21
COP	Heating			3.56	3.35	3.38
Pdesign	Cooling/Heating(-10°C)		kW	3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling		W/W	5.70	5.60	5.80
SCOP	Heating			3.90	3.80	3.80
Energy Efficiency Class	Cooling			A+	A+	A+
	Heating			A	A	A
Max. Operating Current	Cooling/Heating		A	7.5/10.0	9.0/12.5	11.5/13.5
Annual Energy Consumption	Cooling		kWh/a	215	269	314
	Heating			1,505	1,656	1,913
Moisture Removal			l/h	1.2	1.4	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31/27/25/23	35/30/27/23	33/29/26/23
	Indoor (Heating)	H/M/L/Q		31/27/25/23	35/30/27/23	33/29/26/23
	Outdoor(Cooling/Heating)	High		47/48	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		55/57	60/62	58/59
	Outdoor(Cooling/Heating)	High		61/63	62/64	62/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	650/1,780	800/1,910	940/2,380
	Indoor / Outdoor (Heating)	High		650/1,630	800/1,740	940/2,080
Static pressure range (Standard)			Pa	0 to 30 (10)	0 to 50 (15)	0 to 50 (15)
Net Dimensions H x W x D	Indoor		mm	198×700×450	198×700×450	198×900×450
	Outdoor		mm	578×790×300	578×790×300	632×799×290
Weight	Indoor		kg(lbs)	15.5 (34)	15.5 (34)	18.5 (41)
	Outdoor		kg(lbs)	40 (88)	40 (88)	36 (79)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)	25 (15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.15 (2.401)	1.25 (2.610)	1.20 (2.506)

Optional parts

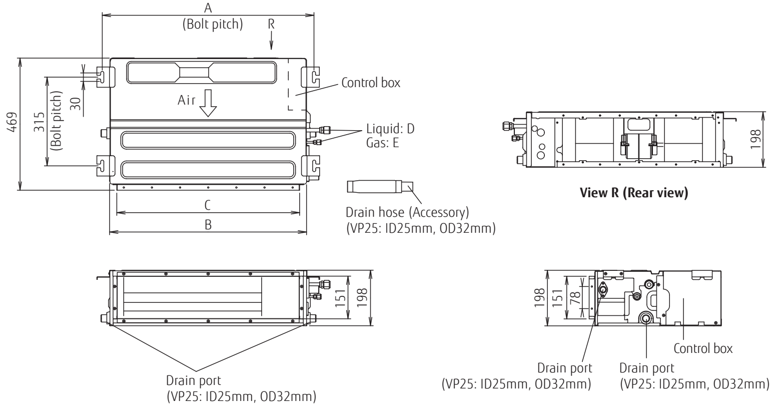
Compact Wired Remote Controller: UTY-RCRYZ1
Wired Remote Controller (Touch Panel): UTY-RNRYZ3
Wired Remote Controller: UTY-RLRY
UTY-RNNYM
UTY-RVNYM
Simple Remote Controller (Without operation mode): UTY-RHRY
Simple Remote Controller: UTY-RSRY
UTY-RSNYM

External Switch Controller: UTY-TERX
Wireless LAN Interface: UTY-TFSXZ1
FJ-RC-WIFI-1
KNX® Convertor: UTY-VKSX
MODBUS® Convertor: UTY-VMSX
Remote Sensor Unit: UTY-XSZX
MODBUS® Interface: FJ-RC-MBS-1
KNX® Interface: FJ-RC-KNX-1i

Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV
Auto Louver Grille Kit: UTD-GXTA-W (12/14)
UTD-GXTB-W (18)
IR Receiver Unit: UTY-LBTYM
External Connect Kit: UTY-XWZXZG

Dimensions

(Unit : mm)



	ARYG12/14LSLAP	ARYG18LSLAP
A	752	952
B	700	900
C	650	850
D	6.35	9.52
E	12.70	15.88

Slim Duct

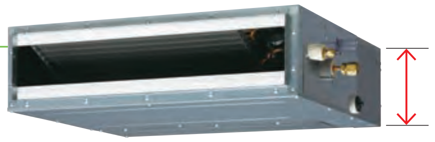
Slim & Comfort

ALL DC

Economy | Return | Auto Changeover | Adjust | Restart | Auto OFF | Weekly | +Setback | Filter | On/Off | Drain Pump

Slim design

The slim design allows installations where ceilings are narrow.
Drain hose as standard accessory



Height
198 mm
Drain pump built-in

Compact and lightweight outdoor unit

Compact and lightweight outdoor unit expands a wider range of choice for installation location. This makes it easier to use this outdoor unit.

Weight
-17.5%
12/14 models

Selectable with a wide range of static pressure

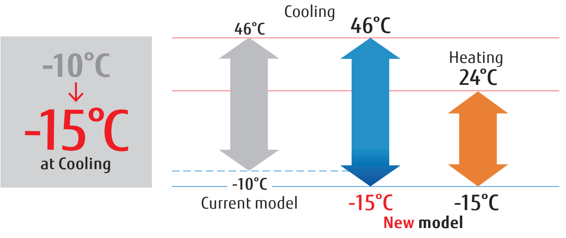
By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa.
The change of static pressure range is possible by remote controller.

Static pressure range
0 to 90 Pa

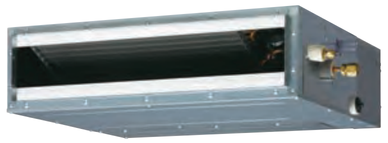
Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

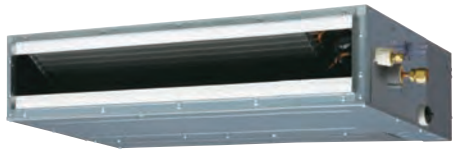
Low ambient operation



Model : ARXG09KLLAP / ARXG12KLLAP / ARXG14KLLAP / ARXG18KLLAP



ARXG09/12/14KLLAP



ARXG18KLLAP

For ARXG09/12/14KLLAP

For ARXG18KLLAP

Specifications

Model No.			Indoor unit	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP
			Outdoor unit	AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.5 (0.9-3.2)	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating			3.2 (0.9-4.7)	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating		kW	0.60/0.79	0.93/1.08	1.28/1.32	1.55/1.62
EER	Cooling		W/W	4.17	3.76	3.36	3.35
COP	Heating			4.05	3.80	3.79	3.70
Pdesign	Cooling/Heating(-10°C)		kW	2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4
SEER	Cooling		W/W	6.20	6.10	5.80	6.20
SCOP	Heating			4.30	4.00	3.90	4.10
Energy Efficiency Class	Cooling			A++	A++	A+	A++
	Heating			A+	A+	A	A+
Max. Operating Current	Cooling/Heating		A	7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1
Annual Energy Consumption	Cooling		kWh/a	141	201	259	293
	Heating			845	1,189	1,362	1,501
Moisture Removal			l/h	0.7	1.3	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		28/26/25/24	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High		46/46	47/47	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		57/57	58/58	60/60	58/58
	Outdoor(Cooling/Heating)	High		59/59	61/61	62/62	62/62
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	600/1,480	650/1,580	800/1,670	940/2,160
	Indoor / Outdoor (Heating)	High		600/1,410	650/1,520	800/1,580	940/1,830
Static pressure range (Standard)			Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Net Dimensions H x W x D	Indoor		mm	198x700x620	198x700x620	198x700x620	198x900x620
	Outdoor		mm	542x799x290	542x799x290	542x799x290	632x799x290
Weight	Indoor		kg(lbs)	17 (37)	17 (37)	17 (37)	20 (44)
	Outdoor		kg(lbs)	32 (71)	33 (73)	33 (73)	36 (79)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	20 (15)	25 (15)	25 (15)	30 (20)
Max Height Difference				15	20	20	20
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)

Optional parts

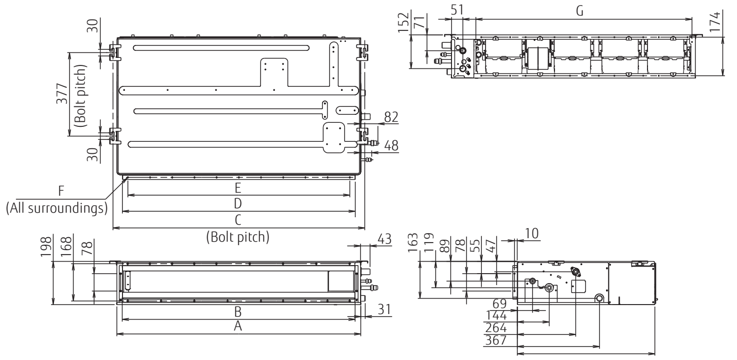
Compact Wired Remote Controller: UTY-RCRYZ1
Wired Remote Controller (Touch Panel): UTY-RNRYZ3
Wired Remote Controller: UTY-RLRY
UTY-RNNYM
UTY-RVNYM
Simple Remote Controller (Without operation mode): UTY-RHRY
Simple Remote Controller: UTY-RSRY
UTY-RSNYM

External Switch Controller: UTY-TERX
Wireless LAN Interface: UTY-TFSXZ1
FJ-RC-WIFI-1
KNX® Convertor: UTY-VKSX
MODBUS® Convertor: UTY-VMSX
Remote Sensor Unit: UTY-XSZX
MODBUS® Interface: FJ-RC-MBS-1
KNX® Interface: FJ-RC-KNX-1i

Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV
Fresh Air Intake Kit: UTZ-VXAA
Auto Louver Grille Kit: UTD-GXTA-W (09-14)
UTD-GXTB-W (18)
IR Receiver Unit: UTY-LBTYM
External Connect Kit: UTY-XWZXZG

Dimensions

(Unit : mm)



	ARXG09/12/14KLLAP	ARXG18KLLAP
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774

Slim Duct

Slim & Comfort

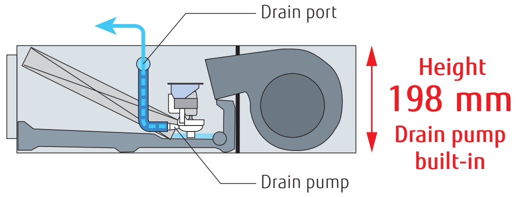
REFRIGERANT R410A

ALL DC

Economy · Auto Changeover · Adjust · Restart · +Setback · Filter · Drain Pump

Slim design

The slim design allows installations where ceilings are narrow.
Drain hose as standard accessory



Flexible installation

2-type installation methods of ceiling concealed and floor concealed can be selected.

Ceiling concealed

Floor concealed

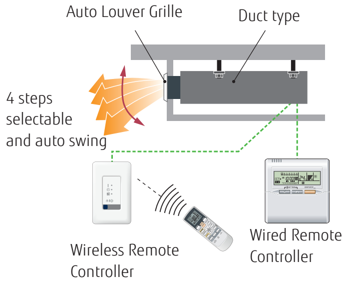
Selectable with a wide range of static pressure

By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa.
The change of static pressure range is possible by remote controller.

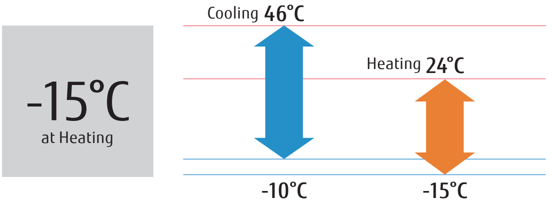
Static pressure range
0 to 90 Pa

Auto Louver Grille Kit (Option)

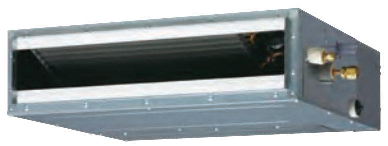
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



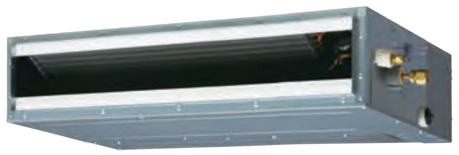
Low ambient operation



Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB



ARYG12/14LLTB



ARYG18LLTB

Wired R.C.

For ARYG12/14LLTB

For ARYG18LLTB

Specifications

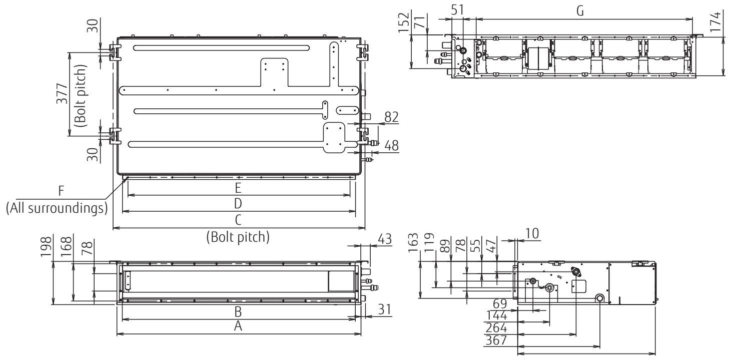
Model No.				ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
Model No.	Indoor unit			ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
	Outdoor unit			AOYG12LALL	AOYG14LALL	AOYG18LBCB
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating			4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating		kW	1.05/1.11	1.33/1.34	1.62/1.66
EER	Cooling		W/W	3.33	3.21	3.21
COP	Heating			3.69	3.71	3.61
Pdesign	Cooling/Heating(-10°C)		kW	3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling		W/W	5.90	5.80	6.20
SCOP	Heating			4.00	3.90	4.10
Energy Efficiency Class	Cooling			A++	A+	A++
	Heating			A+	A	A+
Max. Operating Current	Cooling/Heating		A	7.5/10.0	9.0/12.5	11.5/13.5
Annual Energy Consumption	Cooling		kWh/a	207	259	294
	Heating			1,467	1,614	1,775
Moisture Removal			l/h	1.3	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High		47/48	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		58/58	60/60	58/58
	Outdoor(Cooling/Heating)	High		61/63	62/64	62/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	650/1,780	800/1,910	940/2,380
	Indoor / Outdoor (Heating)	High		650/1,630	800/1,740	940/2,080
Static pressure range (Standard)			Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Net Dimensions H x W x D	Indoor		mm	198×700×620	198×700×620	198×900×620
	Outdoor		mm	578×790×300	578×790×300	632×799×290
Weight	Indoor		kg(lbs)	19 (42)	19 (42)	23 (51)
	Outdoor		kg(lbs)	40 (88)	40 (88)	36 (79)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)	25 (15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.15 (2.401)	1.25 (2.610)	1.20 (2.506)

Optional parts

Wired Remote Controller:	UTY-RNNYM	External Connect Kit:	UTD-ECS5A	Network Convertor for single split (DC power supply type):	UTY-VTGX
	UTY-RVNYM	Auto Louver Grille Kit:	UTD-GXSA-W (12/14)	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM		UTD-GXSB-W (18)	Remote Sensor Unit:	UTY-XSZX
External Switch Controller:	UTY-TERX		UTD-GXTA-W (12/14)	MODBUS® Interface:	FJ-RC-MBS-1
Wireless LAN Interface:	UTY-TFNXZ1		UTD-GXTB-W (18)	KNX® Interface:	FJ-RC-KNX-1i
	FJ-RC-WIFI-1	IR Receiver Unit:	UTY-LRHYM		

Dimensions

(Unit : mm)



	ARYG12 / 14LLTB	ARYG18LLTB
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774

Medium Static Pressure Duct

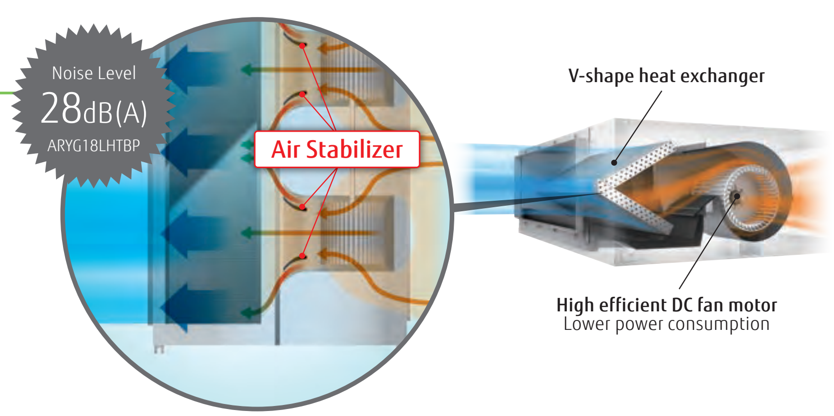
Compact & Comfort

ALL DC

Economy · Set Temp. · Return · Auto Changeover · Adjust · Restart · Duct · Auto OFF · Weekly · Filter · On/Off · Adjust · Drain Pump · Blue Fin (30/36/45/54)

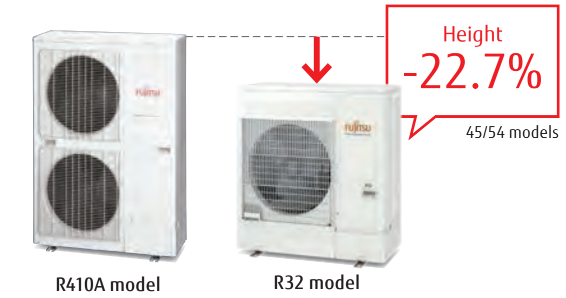
High Efficiency & Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed high efficiency and quiet operation.



Small and light weight outdoor unit

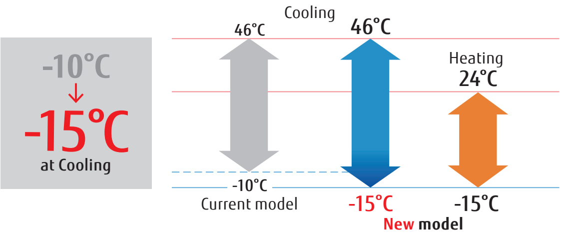
This model is much more compact than conventional outdoor unit. It can be installed in a narrow place.



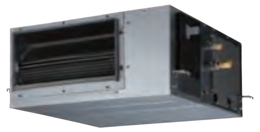
Automatic Airflow adjustment function

This unique and innovative function detects required air flow in each application case and automatically adjust the volume.

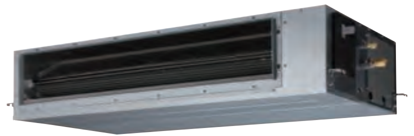
Low ambient operation



Model: ARXG12KHTAP / ARXG14KHTAP / ARXG18KHTAP / ARXG22KHTAP / ARXG24KHTAP
ARXG30KHTAP / ARXG36KHTAP / ARXG45KHTAP / ARXG54KHTAP
NEW ARXG36KHTAP [3 phase] / NEW ARXG45KHTAP [3 phase] / NEW ARXG54KHTAP [3 phase]


ARXG12/14KHTAP


ARXG18/22/24/30KHTAP


ARXG36/45/54KHTAP


For ARXG12/14KHTAP


For ARXG18/22KHTAP


For ARXG24KHTAP


For ARXG30/36KHTAP


For ARXG45/54KHTAP

Specifications

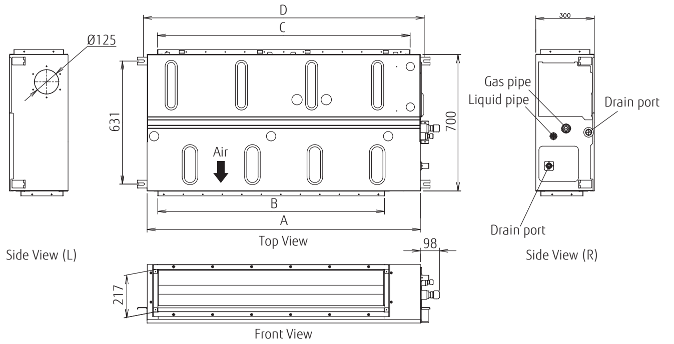
Model No.															
Model No.	Indoor unit			ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP
	Outdoor unit			AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Power Source				Single phase, ~230V, 50Hz									3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating			4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating		kW	0.87/1.00	1.17/1.25	1.36/1.56	1.71/1.81	1.89/1.85	2.65/2.63	2.86/2.48	3.53/3.37	4.42/3.89	2.86/2.48	3.53/3.37	4.42/3.89
EER	Cooling		W/W	4.02	3.68	3.82	3.51	3.60	3.21	3.32	3.43	3.03	3.32	3.43	3.03
COP	Heating			4.10	4.00	3.85	3.87	4.06	3.80	4.35	4.01	3.98	4.35	4.01	3.98
Pdesign	Cooling/Heating(-10°C)		kW	3.5/3.4	4.3/3.8	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	-	9.5 / 8.7	-	-
SEER	Cooling		W/W	6.30	6.20	6.50	6.50	6.50	6.23	6.10	-	-	6.10	-	-
SCOP	Heating (Average)			4.10	4.00	4.10	4.20	4.10	4.00	4.20	-	-	4.20	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	A++	A++	-	-	A++	-	-
	Heating (Average)			A+	A+	A+	A+	A+	A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	9.7/9.7	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	194	243	280	323	366	477	544	-	-	544	-	-
	Heating			1,159	1,328	1,501	1,597	2,048	2,796	2,898	-	-	2,898	-	-
Moisture Removal			l/h	0.7	0.9	1.2	1.5	1.8	2.3	2.0	2.6	3.7	2.0	2.6	3.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29	36/31/28/26	39/35/31/29	39/35/31/29
	Indoor (Heating)	H/M/L/Q		32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	33/31/28/26	39/35/31/29	39/35/31/29	33/31/28/26	39/35/31/29	39/35/31/29
	Outdoor(Cooling/Heating)	High		47/47	49/49	50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59
Sound Power Level	Indoor(Cooling/Heating)	High		57/58	59/60	54/54	57/57	57/57	63/65	64/63	67/69	67/69	64/63	67/69	67/69
	Outdoor(Cooling/Heating)	High		61/61	62/62	62/62	63/63	65/66	68/69	70/70	71/71	73/73	70/70	71/71	73/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	850/1,580	950/1,670	1,050/2,160	1,050/2,240	1,360/2,700	1,700/3,750	2,050/3,750	2,550/4,450	2,550/4,450	2,050/3,750	2,550/4,450	2,550/4,450
	Indoor / Outdoor (Heating)	High		850/1,520	950/1,580	1,050/1,830	1,050/1,960	1,360/2,700	1,700/3,750	1,850/3,750	2,550/4,450	2,550/4,450	1,850/3,750	2,550/4,450	2,550/4,450
Static pressure range (Standard)			Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)	30-200 (47)	30-200 (60)	30-200 (60)
Net Dimensions H x W x D	Indoor		mm	300x700x700	300x700x700	300x1,000x700	300x1,000x700	300x1,000x700	300x1,000x700	300x1,400x700	300x1,400x700	300x1,400x700	300x1,400x700	300x1,400x700	300x1,400x700
	Outdoor		mm	542x799x290	542x799x290	632x799x290	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320	998x940x320	788x940x320	998x940x320	998x940x320
Weight	Indoor		kg(lbs)	27 (60)	27 (60)	35 (77)	35 (77)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)
	Outdoor		kg(lbs)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max Height Difference				20	20	20	25	25	30	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	1.25 (0.844)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.70(1.823)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	KNX® Convertor:	UTY-VKSX	Wireless LAN Interface:	UTY-TFSXZ1
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	MODBUS® Convertor:	UTY-VMSX		FJ-RC-WIFI-1
Wired Remote Controller:	UTY-RLRY	External input and output PCB:	UTY-XCSX	IR Receiver Unit:	UTY-LBTYM
	UTY-RNNYM	External Connect Kit:	UTY-XWZXZG	Network Convertor for single split (DC power supply type):	UTY-VTGX
	UTY-RVNYM	External input and output PCB:	UTZ-GXNA	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller (Without operation mode):	UTY-RHRY	Long-Life Filter:	UTD-LFNA (36-54)		
Simple Remote Controller:	UTY-RSRY		UTD-LFNB (18-30)	**(Outdoor unit 30/36/45/54)**	
	UTY-RSNYM		UTD-LFNC (12-14)	External Connect Kit:	UTY-XWZXZ3
External Switch Controller:	UTY-TERX	MODBUS® Interface:	FJ-RC-MBS-1		
Remote Sensor Unit:	UTY-XSZX	KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



	ARXG12/14KHTAP	ARXG18/22/24/30KHTAP	ARXG36/45/54KHTAP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

Medium Static Pressure Duct

Compact & Comfort

REFRIGERANT R410A

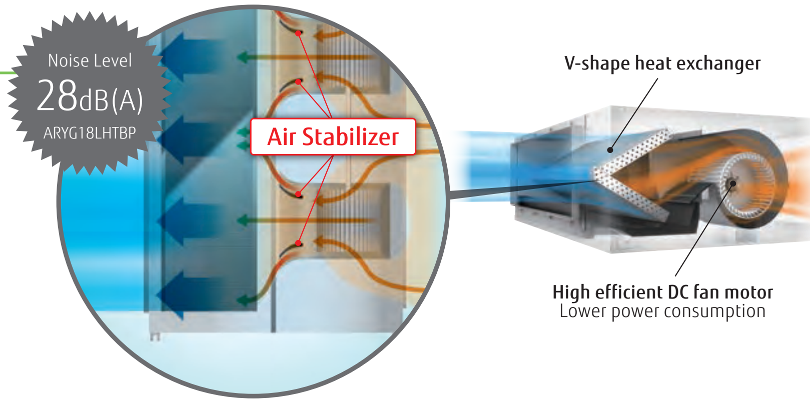
ALL DC

Economy | Set Temp. | Return | Auto Changeover | Adjust | Restart | Duct | Auto OFF | Weekly | Filter | On/Off | Adjust | Drain Pump | Blue Fin

(30/36/45/54)

High Efficiency & Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed high efficiency and quiet operation.



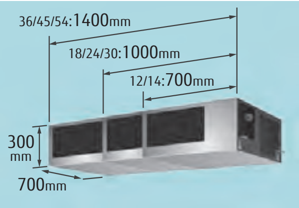
Automatic Airflow adjustment function

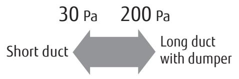
This unique and innovative function detects required air flow in each application case and automatically adjust the volume.

Improved installation flexibility

- Capable to be installed in various applications that requires static pressure of 30 Pa to 200 Pa*
- Built-in drain pump, rises drain up to 850 mm
- Unified depth throughout the range enables the selection of the capacity regardless of the additional space.

(*: 12/14/18/24/30/36 models)

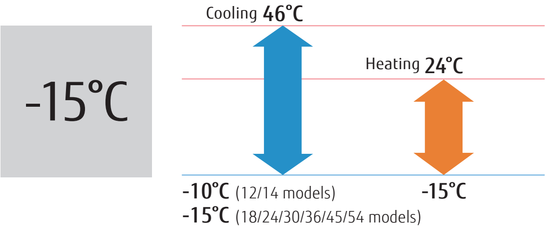




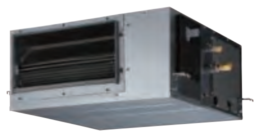
Improved service and maintenance

- Drain pump is easily detachable from the side
- Easy access to electrical box
- Error code can be checked more in detail from error history

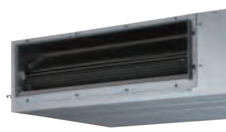
Low ambient operation



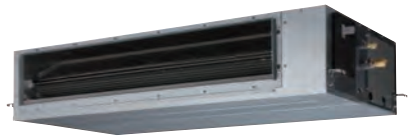
Model: ARYG12LHTBP / ARYG14LHTBP / ARYG18LHTBP / ARYG24LHTBP ARYG30LHTBP / ARYG36LHTBP / ARYG45LHTBP / ARYG54LHTBP



ARYG12/14LHTBP



ARYG18/24/30LHTBP



ARYG36/45/54LHTBP

Touch Panel Wired R.C.

For ARYG12/14LHTBP

For ARYG18/24LHTBP

For ARYG30/36LHTBP

For ARYG45/54LHTBP

Specifications

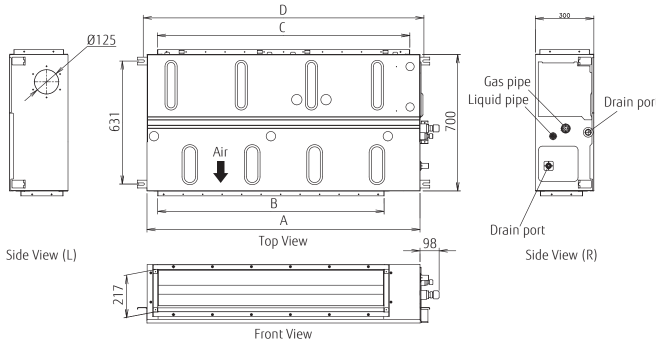
Model No.				ARYG12LHTBP	ARYG14LHTBP	ARYG18LHTBP	ARYG24LHTBP	ARYG30LHTBP	ARYG36LHTBP	ARYG45LHTBP	ARYG54LHTBP
	Outdoor unit			AOYG12LBLA	AOYG14LBLA	AOYG18LBCA	AOYG24LBCA	AOYG30LBTA	AOYG36LBTA	AOYG45LBTA	AOYG54LBTA
Power Source				Single phase, ~230V, 50Hz							
Capacity	Cooling		kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating			4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-8.0)	8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-16.2)	16.0 (4.7-16.5)
Input Power	Cooling/Heating		kW	0.90/1.00	1.18/1.25	1.37/1.48	1.95/2.21	2.65/2.70	2.83/3.07	3.59/3.44	4.42/4.62
EER	Cooling		W/W	3.89	3.64	3.80	3.49	3.21	3.32	3.37	3.03
COP	Heating			4.10	4.00	4.05	3.62	3.70	3.65	3.87	3.46
Pdesign	Cooling/Heating(-10°C)		kW	3.5/4.2	4.3/4.5	5.2/ 4.3	6.8/ 6.0	8.5/8.0	9.4/8.7	-	-
SEER	Cooling		W/W	6.20	6.10	7.15	6.50	5.95	5.81	-	-
SCOP	Heating (Average)			4.10	4.00	4.11	4.01	3.95	3.81	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A+	A+	-	-
	Heating (Average)			A+	A+	A+	A+	A	A	-	-
Max. Operating Current	Cooling/Heating		A	8.0/10.5	9.5/13.0	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	22.5/22.5	23.5/23.5
Annual Energy Consumption	Cooling		kWh/a	198	247	255	366	500	566	-	-
	Heating			1,434	1,573	1,462	2,092	2,833	3,194	-	-
Moisture Removal			l/h	0.7	0.9	1.2	1.8	2.3	2.0	2.6	3.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29
	Indoor (Heating)	H/M/L/Q		32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/33/30/29	33/31/28/26	39/35/31/29	39/35/31/29
	Outdoor(Cooling/Heating)	High		47/48	49/49	50/51	55/56	53/55	54/55	55/55	55/57
Sound Power Level	Indoor(Cooling/Heating)	High		57/58	59/60	54/54	57/57	63/65	64/63	67/69	67/69
	Outdoor(Cooling/Heating)	High		60/61	64/63	64/62	68/68	68/69	69/70	69/68	69/71
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	850/1,780	950/1,910	1,050/1,900	1,360/2,460	1,700/3,600	2,050/3,800	2,550/6,750	2,550/6,750
	Indoor / Outdoor (Heating)	High		850/1,630	950/1,740	1,050/1,700	1,360/2,340	1,700/3,600	1,850/3,800	2,550/6,200	2,550/6,850
Static pressure range (Standard)			Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)
Net Dimensions H x W x D	Indoor		mm	300×700×700	300×700×700	300×1,000×700	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700
	Outdoor		mm	578×790×300	578×790×300	620×790×290	620×790×290	830×900×330	830×900×330	1,290×900×330	1,290×900×330
Weight	Indoor		kg(lbs)	27 (60)	27 (60)	36 (79)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)
	Outdoor		kg(lbs)	40 (88)	40 (88)	41 (90)	41 (90)	61 (134)	61 (134)	86 (190)	86 (190)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)
Max Height Difference				15	15	20	20	30	30	30	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.15 (2.401)	1.25 (2.610)	1.80 (3.758)	1.80 (3.758)	2.10 (4.385)	2.10 (4.385)	3.35 (6.995)	3.35 (6.995)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3
Wired Remote Controller:	UTY-RLRY
	UTY-RNNYM
	UTY-RVNYM
Simple Remote Controller (Without operation mode):	UTY-RHRY
Simple Remote Controller:	UTY-RSRY
	UTY-RSNYM
External Switch Controller:	UTY-TERX
Remote Sensor Unit:	UTY-XSZX
KNX® Convertor:	UTY-VKSX
MODBUS® Convertor:	UTY-VMSX
External input and output PCB:	UTY-XCSX
External Connect Kit	UTY-XWZXZG
External input and output PCB Bracket:	UTZ-GXNA
Long-Life Filter	UTD-LFNA (36-54)
	UTD-LFNB (18-30)
	UTD-LFNC (12-14)
MODBUS® Interface:	FJ-RC-MBS-1
KNX® Interface:	FJ-RC-KNX-1i
Wireless LAN Interface:	UTY-TFNXZ1
	FJ-RC-WIFI-1
IR Receiver Unit:	UTY-LBTYM
Network Convertor for single split (DC power supply type):	UTY-VTGX
Network Convertor for single split (AC power supply type):	UTY-VTGXV
(Outdoor unit 45/54)	
External Connect Kit:	UTY-XWZXZ3

Dimensions

(Unit : mm)



	ARYG12/14LHTBP	ARYG18/24/30LHTBP	ARYG36/45/54LHTBP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

Medium Static Pressure Duct

Standard

ALL DC

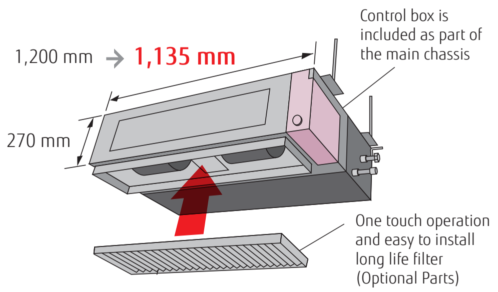
Economy · Return · Auto Changeover · Adjust · Restart · Duct · Distributing · Auto OFF · Weekly · +Setback · Filter · On/Off · Blue Fin

(45)

Slim & Compact design

Indoor Unit

The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



New Outdoor Unit

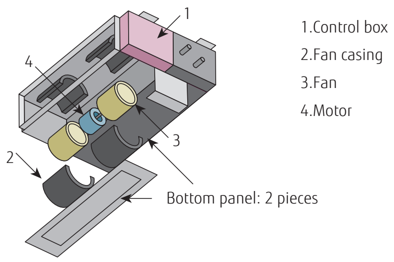
45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.

R410A model · R32 model

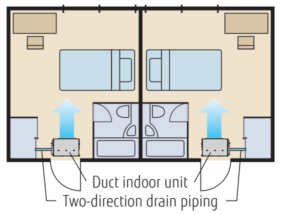
Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

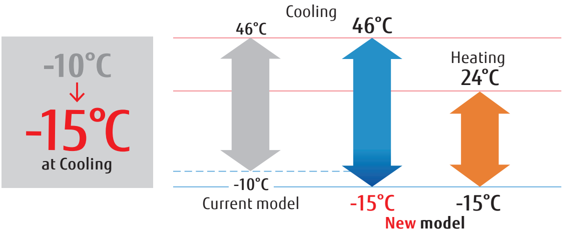
See below for the case of rear suction type



Two-direction drain piping



All class low ambient operation



Model : ARXG22KMLA / ARXG24KMLA / ARXG30KMLA / ARXG36KMLA / ARXG45KMLA
NEW ARXG36KMLA [3 phase] / NEW ARXG45KMLA [3 phase]

For ARXG22KMLA

For ARXG24KMLA

For ARXG30/36KMLA

For ARXG45KMLA

Specifications

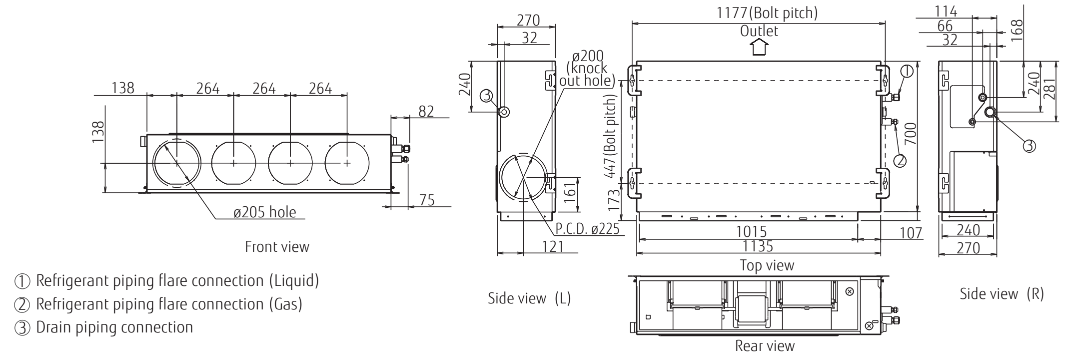
Model No.				ARXG22KMLA	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA
	Outdoor unit			AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG36KRTA	AOYG45KRTA
Power Source				Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-13.0)	9.5 (2.8-11.2)	12.1 (4.0-13.0)
	Heating			7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-15.2)	10.8 (2.7-12.7)	13.5 (4.2-15.2)
Input Power	Cooling/Heating		kW	1.78/1.87	2.14/1.97	2.65/2.63	2.97/2.88	4.22/3.84	2.97/2.88	4.22/3.84
EER	Cooling		W/W	3.37	3.18	3.21	3.20	2.87	3.20	2.87
COP	Heating			3.74	3.80	3.80	3.75	3.52	3.75	3.52
Pdesign	Cooling/Heating(-10°C)		kW	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	9.5 / 8.7	-
SEER	Cooling		W/W	6.10	6.20	6.23	6.10	-	6.10	-
SCOP	Heating			4.10	4.10	4.00	4.00	-	4.00	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	-	A++	-
	Heating			A+	A+	A+	A+	-	A+	-
Max. Operating Current	Cooling/Heating		A	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	10.5/10.5	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	344	384	477	545	-	545	-
	Heating			1,637	2,045	2,797	3,044	-	3,044	-
Moisture Removal			l/h	2.1	2.5	2.5	3.0	4.0	3.0	4.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31/29/27/25	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	39/35/30/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q		31/29/27/25	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/35/30/26	42/38/32/28
	Outdoor(Cooling/Heating)	High		51/51	53/54	53/55	55/55	57/57	55/55	57/57
Sound Power Level	Indoor(Cooling/Heating)	High		60/62	60/62	65/69	65/70	68/70	65/70	68/70
	Outdoor(Cooling/Heating)	High		63/63	65/66	68/69	70/70	71/71	70/70	71/71
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,100/2,240	1,100/2,700	1,900/3,750	1,900/3,750	2,100/4,450	1,900/3,750	2,100/4,450
	Indoor / Outdoor (Heating)	High		1,100/1,960	1,100/2,700	2,100/3,750	2,100/3,750	2,100/4,450	2,100/3,750	2,100/4,450
Static pressure range (Standard)			Pa	30 to 150 (35)	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)	30-150 (47)	30-150 (60)
Net Dimensions H x W x D	Indoor		mm	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700
	Outdoor		mm	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320	788x940x320	998x940x320
Weight	Indoor		kg(lbs)	35 (77)	35 (77)	38 (84)	38 (84)	39 (86)	38 (84)	39 (86)
	Outdoor		kg(lbs)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	53 (117)	67 (148)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1
Max Pipe Length (Pre-Charge)			m	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max Height Difference				25	25	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	1.25 (0.844)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	1.90(1.283)	2.70(1.823)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	Remote Sensor Unit:	UTY-XSZX
	UTY-RNNYM	KNX® Convertor:	UTY-VKSX	External Connect Kit:	UTY-XWZXZG
	UTY-RVNYM	MODBUS® Convertor:	UTY-VMSX	Drain Pump Unit:	UTZ-PX1NBA
Simple Remote Controller (Without operation mode):	UTY-RHRY	Flange (Round):	UTD-LF25NA	Long-Life Filter:	UTD-SF045T
Simple Remote Controller:	UTY-RSRY	Flange (Square):	UTD-RF204		
	UTY-RSNYM	MODBUS® Interface:	FJ-RC-MBS-1	**(Outdoor unit 30/36/45/54)**	
IR Receiver Unit:	UTY-LBTYM	KNX® Interface:	FJ-RC-KNX-1i	External Connect Kit:	UTY-XWZXZ3

Dimensions

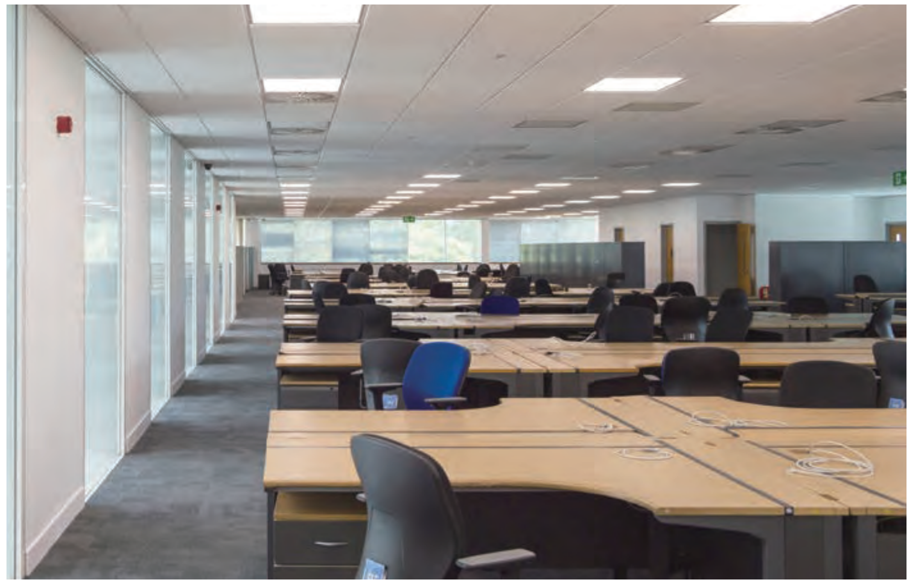
(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Medium Static Pressure Duct

Standard

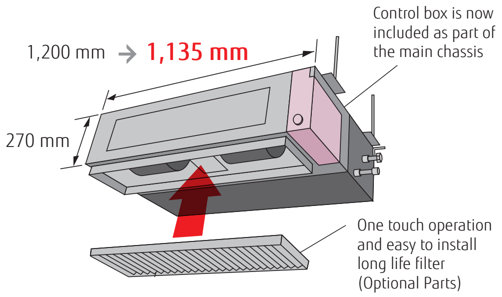


Economy · Auto Changeover · Adjust · Restart · Duct · Distributing · +Setback · Filter · Blue Fin

(45)

Slim & Compact design

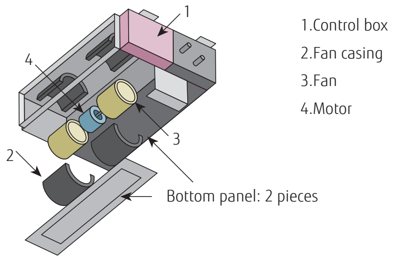
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270 mm, further space savings have been achieved by mounting the control box internally inside the chassis.



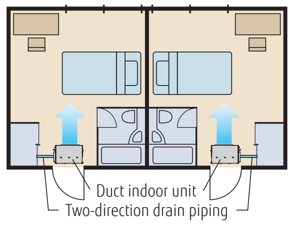
Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

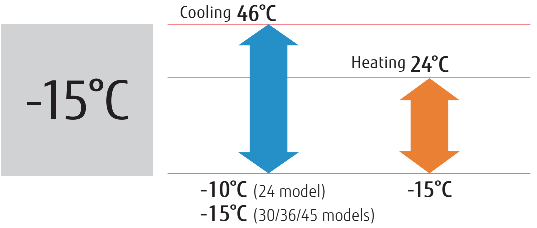
See below for the case of rear suction type



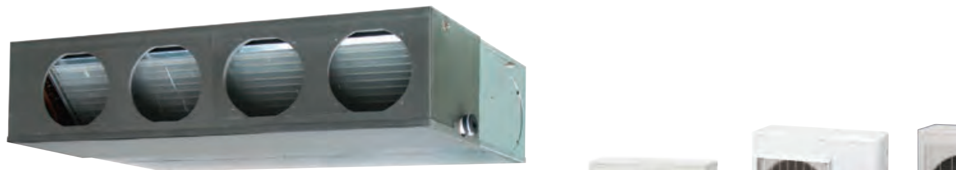
Two-direction drain piping



Low ambient operation



Model : ARYG24LMLA / ARYG30LMLE / ARYG36LMLE / ARYG45LMLA / ARYG36LMLA [3 phase] / ARYG45LMLA [3 phase]



Wired R.C.

For ARYG24LMLA

For ARYG30/36LMLE

For ARYG45LMLA (Single phase)

For ARYG36/45LMLA

Specifications

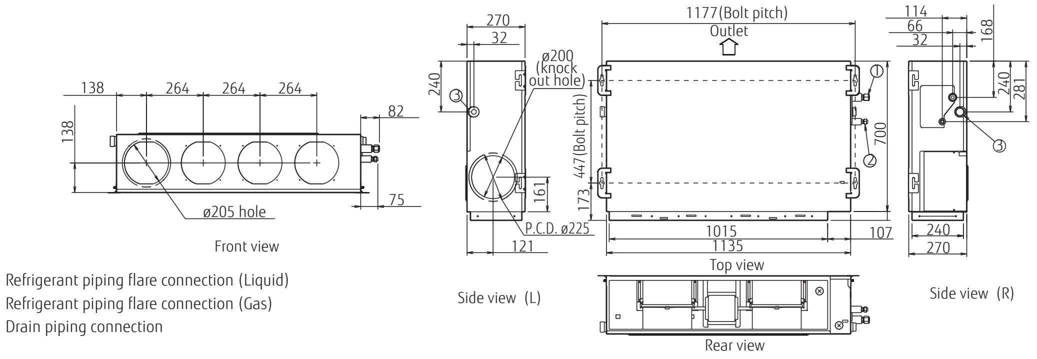
Model No.	Indoor unit			ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA	ARYG45LMLA	ARYG36LMLA	ARYG45LMLA
	Outdoor unit			AOYG24LBCB	AOYG30LETL	AOYG36LETL	AOYG45LBTC	AOYG45LETL	AOYG36LATT	AOYG45LATT
Power Source				Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.0)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)
	Heating			8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.2)	13.1 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)
Input Power	Cooling/Heating		kW	2.21/2.26	2.65/2.68	2.96/3.10	4.29/3.84	3.77/3.68	2.84/2.87	3.89/3.88
EER	Cooling		W/W	3.08	3.21	3.18	2.82	3.21	3.52	3.21
COP	Heating			3.54	3.73	3.61	3.46	3.61	3.90	3.61
Pdesign	Cooling/Heating(-10°C)		kW	6.8/6.0	8.5/8.0	9.4/8.7	-	-	10.0/10.0	-
SEER	Cooling		W/W	6.20	5.90	5.70	-	-	5.80	-
SCOP	Heating			4.00	3.90	3.80	-	-	4.00	-
Energy Efficiency Class	Cooling			A++	A+	A+	-	-	A+	-
	Heating			A+	A	A	-	-	A+	-
Max. Operating Current	Cooling/Heating		A	14.7/15.7	17.0/17.0	18.5/20.0	23.5/23.5	21.0/21.0	8.5/8.5	9.5/9.5
Annual Energy Consumption	Cooling		kWh/a	384	504	576	-	-	603	-
	Heating			2,099	2,868	3,202	-	-	3,497	-
Moisture Removal			l/h	2.5	2.5	3.0	4.0	4.0	3.0	4.5
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	42/38/32/28	38/36/31/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q		31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/38/32/28	40/36/31/26	48/38/32/28
	Outdoor(Cooling/Heating)	High		53/54	53/55	54/55	58/58	55/55	51/53	54/54
Sound Power Level	Indoor(Cooling/Heating)	High		60/62	65/69	65/69	-	-	65/67	-
	Outdoor(Cooling/Heating)	High		66/66	68/69	69/70	-	-	67/69	-
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,100/2,850	1,900/3,600	1,900/3,800	2,100/4,650	2,100/6,750	1,800/6,200	2,100/6,750
	Indoor / Outdoor (Heating)	High		1,100/2,700	2,100/3,600	2,100/3,800	2,100/4,650	2,100/6,200	1,850/6,200	2,100/6,200
Static pressure range (Standard)			Pa	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)	30 to 150 (60)	30 to 150 (47)	30 to 150 (60)
Net Dimensions H x W x D	Indoor		mm	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700	270x1,135x700	270×1,135×700	270×1,135×700
	Outdoor		mm	716×820×315	830×900×330	830×900×330	914×970×370	1,290×900×330	1,290×900×330	1,290×900×330
Weight	Indoor		kg(lbs)	38 (84)	40 (88)	40 (88)	40 (88)	40 (88)	40 (88)	40 (88)
	Outdoor		kg(lbs)	42 (93)	61 (134)	61 (134)	75 (165)	86 (190)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	36.0/38.0	36.0/38.0
Max Pipe Length (Pre-Charge)			m	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)
Max Height Difference				20	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.50 (3.132)	2.10 (4.385)	2.10 (4.385)	2.90 (6.055)	3.35 (6.995)	3.45 (7.204)	3.45 (7.204)

Optional parts

Wired Remote Controller:	UTY-RNNYM	Drain Pump Unit:	UTZ-PX1NBA	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller:	UTY-RVNYM	External Connect Kit:	UTD-ECS5A	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	Long-Life Filter:	UTD-LF25NA	IR Receiver Unit:	UTY-LRHYM
External Switch Controller:	UTY-TERX	Flange (Round):	UTD-RF204		
Wireless LAN Interface:	UTY-TFNXZ1	Flange (Square):	UTD-SF045T	**(Outdoor unit 36/45/54)**	UTY-XWZXZ2
	FJ-RC-WIFI-1	MODBUS® Interface:	FJ-RC-MBS-1	External Connect Kit:	
Remote Sensor Unit:	UTY-XSZX	KNX® Interface:	FJ-RC-KNX-1i		

Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

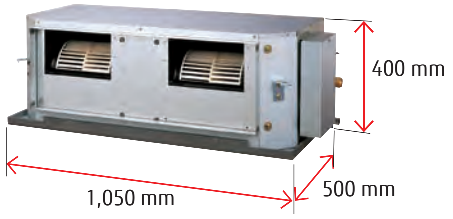
High Static Pressure Duct

REFRIGERANT R32

Economy · Return · Auto Changeover · Adjust · Restart · OFF Auto OFF · Weekly · +Setback · Filter · On/Off · Blue Fin

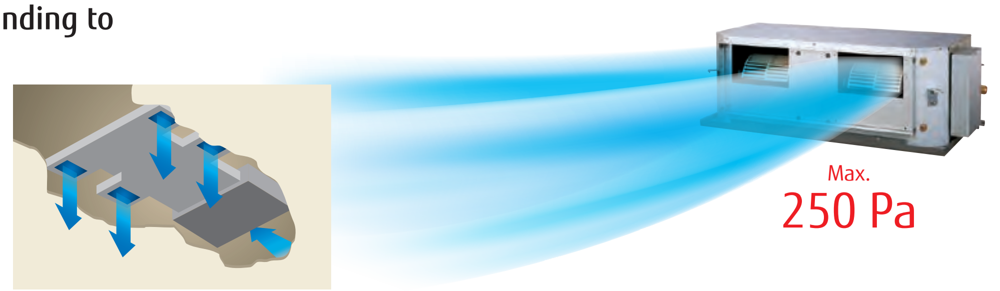
Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit & outdoor unit has been developed by reducing the basic chassis and the overall material weight.



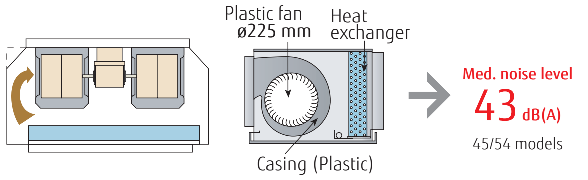
R410A model R32 model

Design also corresponding to high static pressure

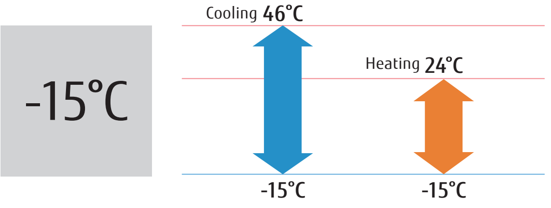


Low noise

Cutting off the corners has enabled less turbulent airflow.
Low noise is realized by adopting a plastic case and a plastic fan.



Low ambient operation



REFRIGERANT R32

Model : ARXG45KHTA / ARXG54KHTA
NEW **ARXG45KHTA [3 phase] /** NEW **ARXG54KHTA [3 phase]**

Specifications

Model No.	Indoor unit			ARXG45KHTA	ARXG54KHTA	ARXG45KHTA	ARXG54KHTA
	Outdoor unit			AOYG45KBTB	AOYG54KBTB	AOYG45KRTA	AOYG54KRTA
Power Source				Single phase, ~230V, 50Hz		3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	12.1 (4.0-14.0)	13.4 (5.0-14.5)	12.1 (4.0-14.0)	13.4 (5.0-14.5)
	Heating			13.5 (5.0-16.2)	15.5 (5.5-18.0)	13.5 (5.0-16.2)	15.5 (5.5-18.0)
Input Power	Cooling/Heating		kW	4.16/3.61	4.77/4.18	4.16/3.61	4.77/4.18
EER	Cooling		W/W	2.91	2.81	2.91	2.81
COP	Heating			3.74	3.71	3.74	3.71
Pdesign	Cooling/Heating(-10°C)		kW	-	-	-	-
SEER	Cooling		W/W	-	-	-	-
SCOP	Heating			-	-	-	-
Energy Efficiency Class	Cooling			-	-	-	-
	Heating			-	-	-	-
Max. Operating Current	Cooling/Heating		A	28.5/28.5	28.5/28.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	-	-	-	-
	Heating			-	-	-	-
Moisture Removal			l/h	1.5	2.0	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L	dB(A)	47/43/40	47/43/40	47/43/40	47/43/40
	Indoor (Heating)	H/M/L		47/43/40	47/43/40	47/43/40	47/43/40
	Outdoor(Cooling/Heating)	High		57/57	57/59	57/57	57/59
Sound Power Level	Indoor(Cooling/Heating)	High		75/74	75/74	75/74	75/74
	Outdoor(Cooling/Heating)	High		71/71	73/73	71/71	73/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
	Indoor / Outdoor (Heating)	High		3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
Static pressure range (Standard)			Pa	100 to 250 (100)	100 to 250 (100)	100to250 (100)	100to250 (100)
Net Dimensions H x W x D	Indoor		mm	400x1,050x500	400x1,050x500	400x1,050x500	400x1,050x500
	Outdoor		mm	998x940x320	998x940x320	998x940x320	998x940x320
Weight	Indoor		kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)
	Outdoor		kg(lbs)	67 (148)	67 (148)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4
Max Pipe Length (Pre-Charge)			m	50 (30)	50 (30)	50 (30)	50 (30)
Max Height Difference				30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	2.70(1.823)	2.70(1.823)	2.70(1.823)	2.70(1.823)

Optional parts

Wired Remote Controller: UTY-RNNYM
UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Wireless LAN Interface: UTY-TFNXZ1
FJ-RC-WIFI-1

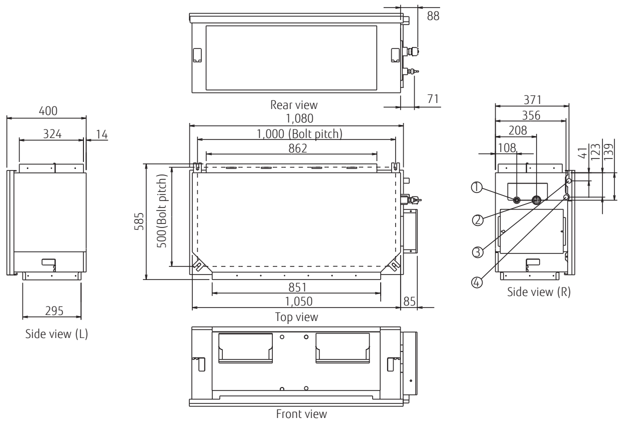
External Connect Kit: UTD-ECS5A
Remote Sensor Unit: UTY-XSZX
Long-Life Filter: UTD-LF60KA
MODBUS® Interface: FJ-RC-MBS-1
KNX® Interface: FJ-RC-KNX-1i

Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV
External Switch Controller: UTY-TERX

(Outdoor unit 45/54) External Connect Kit: UTY-XWZXZ3

Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (Safety drain pan)
④ Drain piping connection(Main drain pan)

High Static Pressure Duct

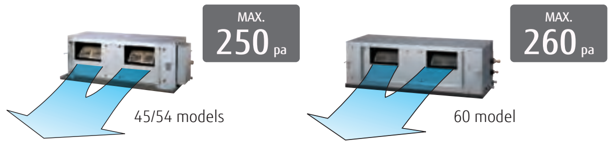
ALL DC
(60)

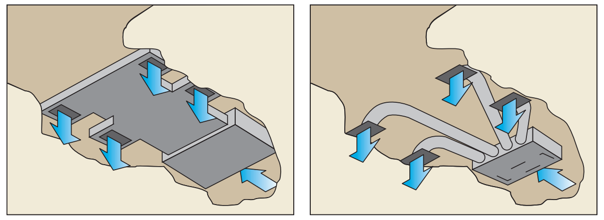
Economy Auto Changeover Adjust Restart +Setback Filter Blue Fin

High energy efficiency

Significantly greater efficiency is realized by using all DC inverter technology. (60 model)

Design also corresponding to high static pressure

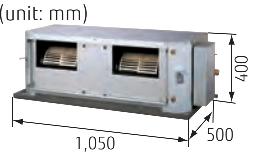




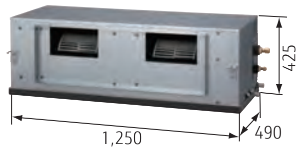
Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

(unit: mm)



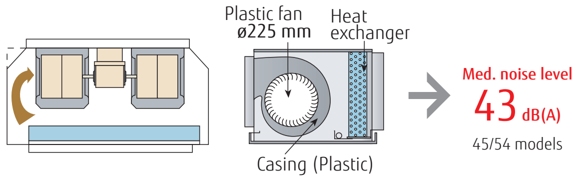
45/54 models



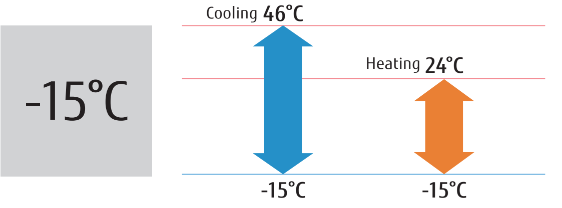
60 model

Low noise

Cutting off the corners has enabled less turbulent airflow.
Low noise is realized by adopting a plastic case and a plastic fan.



Low ambient operation



Model : ARYG45LHTA / ARYG54LHTA / ARYG45LHTA [3 phase] / ARYG54LHTA [3 phase] / ARYG60LHTA [3 phase]


Wired R.C.


ARYG45/54LHTA


ARYG60LHTA

Specifications

Model No.				ARYG45LHTA	ARYG54LHTA	ARYG45LHTA	ARYG54LHTA	ARYG60LHTA
	Outdoor unit			AOYG45LETL	AOYG54LETL	AOYG45LATT	AOYG54LATT	AOYG60LATT
Power Source				Single phase, ~230V, 50Hz		3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	12.5 (4.5-14.0)	13.4 (5.0-14.5)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	15.0 (6.2-17.5)
	Heating			14.0 (5.0-16.2)	16.0 (5.5-18.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	18.0 (6.2-20.0)
Input Power	Cooling/Heating		kW	4.30/3.80	4.77/4.69	4.06/3.67	4.65/4.37	4.70/5.15
EER	Cooling		W/W	2.91	2.81	3.08	3.01	3.19
COP	Heating			3.68	3.41	3.81	3.66	3.50
Max. Operating Current	Cooling/Heating		A	22.5/22.5	23.5/23.5	11.0/11.0	12.0/12.0	12.5 /12.5
Moisture Removal			l/h	1.5	2.0	1.5	2.5	2.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	dB(A)	47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Indoor (Heating)	H/M/L/Q		47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Outdoor(Cooling/Heating)	High		55/55	55/57	54/54	55/56	56/58
Airflow Rate	Indoor / Outdoor (Cooling)	High	m³/h	3,350/6,750	3,350/6,750	3,350/6,750	3,350/6,900	3,550/6,900
	Indoor / Outdoor (Heating)	High		3,350/6,200	3,350/6,850	3,350/6,200	3,350/6,900	3,550/7,300
Static pressure range (Standard)			Pa	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	60 to 260 (60)
Net Dimensions H x W x D	Indoor		mm	400×1,050×500	400×1,050×500	400×1,050×500	400×1,050×500	425×1,250×490
	Outdoor		mm	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
Weight	Indoor		kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	54 (119)
	Outdoor		kg(lbs)	86 (190)	86 (190)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4
Max Pipe Length (Pre-Charge)			m	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference				30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	3.35 (6.995)	3.35 (6.995)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)

Optional parts

Wired Remote Controller:	UTY-RNNYM
Wired Remote Controller:	UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
External Switch Controller:	UTY-TERX
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1
Remote Sensor Unit:	UTY-XSZX
MODBUS® Interface:	FJ-RC-MBS-1
KNX® Interface:	FJ-RC-KNX-1i

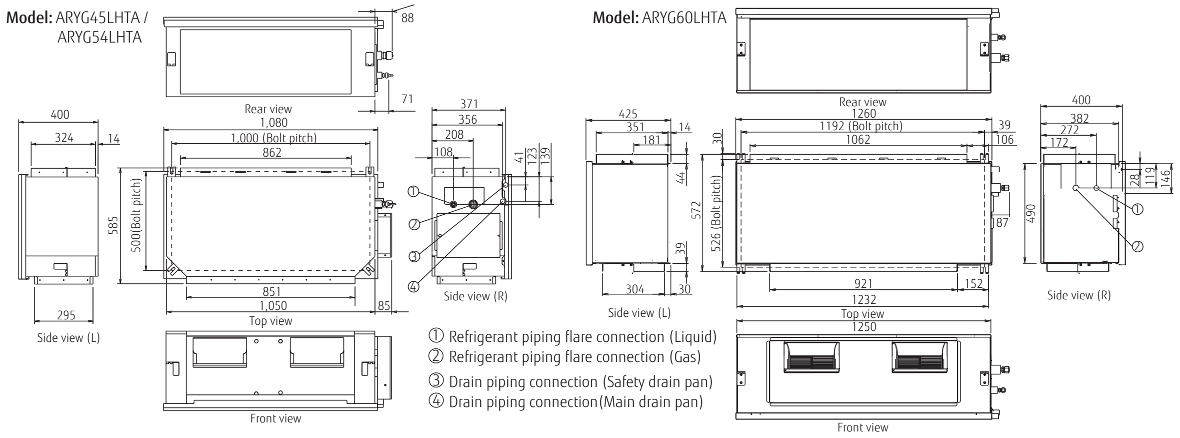
Network Convertor for single split (DC power supply type):	UTY-VTGX
Network Convertor for single split (AC power supply type):	UTY-VTGXV
External Connect Kit:	UTD-ECS5A
IR Receiver Unit	UTY-LRHYM (60)
Long-Life Filter:	UTD-LF60KA (45/54)

(Outdoor unit AOYG45/54/60LATT)

External Connect Kit:	UTY-XWZXZ2

Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (Safety drain pan)
④ Drain piping connection(Main drain pan)

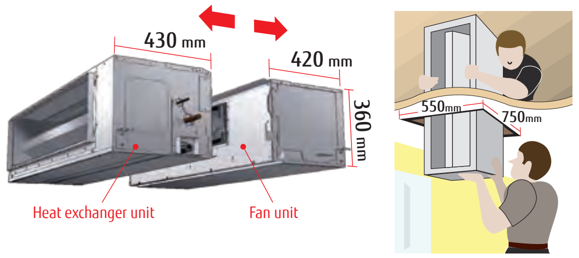
Big Duct

ALL DC

Economy | Set Temp. | Return | Auto Changeover | Adjust | Restart | Auto OFF | Weekly | Filter | On/Off | Adjust | Blue Fin

Separation is possible by lightweight compact design

The indoor unit can be separated into fan unit and heat-exchanger unit to assist the installation works.

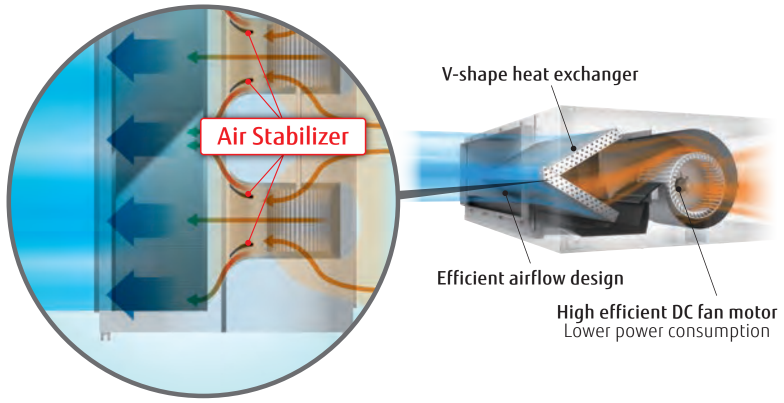


Automatic Airflow adjustment function

This function can set the optimum airflow automatically so, that installation time is shortened drastically.

Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed quiet operation despite of the small structural design.



Model : ARYG72LHTA / ARYG90LHTA


Wired R.C.

Specifications

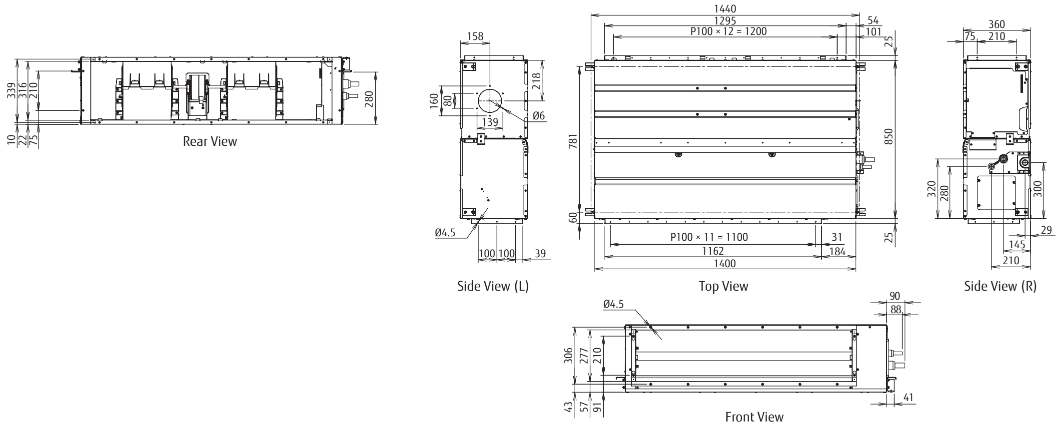
Model No.				ARYG72LHTA	ARYG90LHTA
	Indoor unit			ARYG72LHTA	ARYG90LHTA
	Outdoor unit			AOYG72LRLA	AOYG90LRLA
Power Source	Indoor			Single phase, ~230V, 50Hz	
	Outdoor			3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	19.0 (8.4-20.9)	22.0 (10.3-24.2)
	Heating			22.4 (7.2-24.6)	27.0 (8.5-29.7)
Input Power	Cooling/Heating		kW	6.46 / 6.59	7.77 / 8.18
EER	Cooling		W/W	2.94	2.83
COP	Heating			3.40	3.30
Max. Operating Current	Indoor(Cooling/Heating)		A	-	-
	Outdoor(Cooling/Heating)			-	-
Moisture Removal			l/h	4.5	6.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	dB(A)	46/43/41/39	47/44/42/40
	Indoor (Heating)	H/M/L/Q		46/43/41/39	47/44/42/40
	Outdoor(Cooling/Heating)	High		55/55	55/57
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	4,300/8,400	4,300/8,400
	Indoor / Outdoor (Heating)	High		4,300/8,400	4,300/9,000
Static pressure range (Standard)			Pa	50 to 150 (72)	50 to 200 (72)
Net Dimensions H x W x D	Indoor		mm	360×1,400×850	360×1,400×850
	Outdoor		mm	1,428×1,080×480	1,428×1,080×480
Weight	Indoor		kg(lbs)	69 (152)	80 (176)
	Outdoor		kg(lbs)	165 (364)	174 (384)
Connection Pipe Diameter (Liquid / Gas)			mm	12.7/25.4	12.7/25.4
Drain Hose Diameter (I.D./O.D.)				25/32	25/32
Max Pipe Length (Pre-Charge)			m	100 (30)	100 (30)
Height Difference				30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46
	Heating			-20 to 24	-20 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	5.6 (11.693)	7.1 (14.825)

Optional parts

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	IR Receiver Unit:	UTY-LBTYM
	UTY-RNNYM	KNX® Convertor:	UTY-VKSX		UTY-LRHYM
	UTY-RVNYM	MODBUS® Convertor:	UTY-VMSX		
Simple Remote Controller (Without operation mode):	UTY-RHRY	External input and output PCB:	UTY-XCSX	**(Outdoor unit 72/90)**	
Simple Remote Controller:	UTY-RSRY	Remote Sensor Unit:	UTY-XSZX	External Connect Kit:	UTY-XWZXZ3
	UTY-RSNYM	MODBUS® Interface:	FJ-RC-MBS-1		
External Connect Kit:	UTY-XWZXZG	KNX® Interface:	FJ-RC-KNX-1i		
Drain Pump Unit:	UTZ-PX1NAB	Long Life Filter	UTD-LFKA		

Dimensions

(Unit : mm)



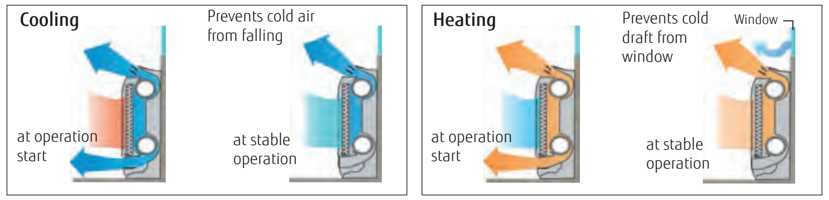
Floor

Compact & Comfort

Economy | 10°C HEAT | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | ION | AF | Washable

2-Fan & Wide airflow

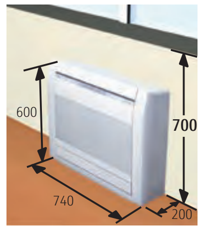
Individual vertical airflow by 2-fan can control the whole room comfortably.



Flexible & easy installation

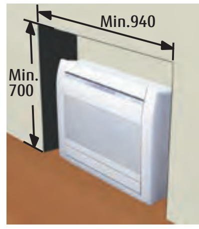
Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.

Beneath standard window



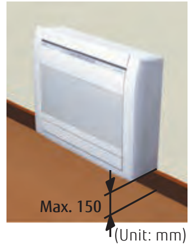
(Unit: mm)

Standard concave portion



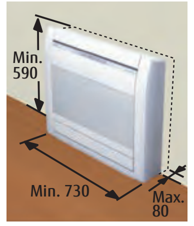
(Unit: mm)

Wall



(Unit: mm)

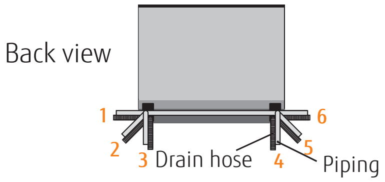
Half concealed (Optional parts necessary)



(Unit: mm)

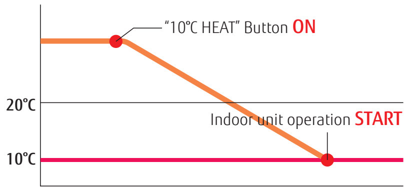
Flexible piping connection 6 direction of drain & piping

Drain hose and piping can be drawn flexibly in the right, left, side, and down directions.

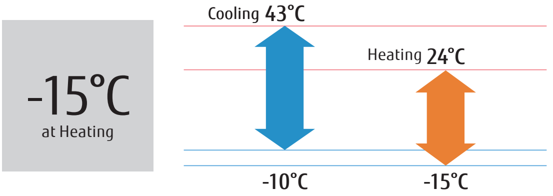


10°C HEAT Operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



Low ambient operation



Model: AGYG09LVCA / AGYG12LVCA / AGYG14LVCA

Wireless R.C.

For AGYG09/12LVCA

For AGYG14LVCA

Specifications

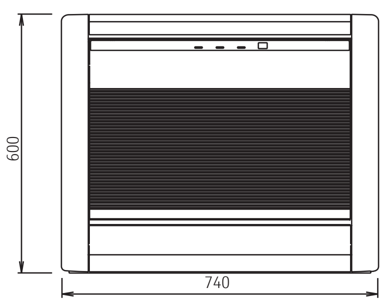
Model No.			Indoor unit	AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
			Outdoor unit	AOYG09LVCA	AOYG12LVCA	AOYG14LVLA
Power Source				Single phase, ~230V, 50Hz		
Capacity	Cooling		kW	2.6 (0.9-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating			3.5 (0.9-5.5)	4.5 (0.9-6.6)	5.2 (0.9-8.0)
Input Power	Cooling/Heating		kW	0.53/0.79	0.94/1.19	1.14/1.44
EER	Cooling		W/W	4.91	3.72	3.68
COP	Heating			4.43	3.78	3.61
Pdesign	Cooling/Heating(-10°C)		kW	2.6/2.9	3.5/3.8	4.2/4.7
SEER	Cooling		W/W	7.00	6.50	6.40
SCOP	Heating (Average)			4.20	4.00	4.00
Energy Efficiency Class	Cooling			A++	A++	A++
	Heating (Average)			A+	A+	A+
Max. Operating Current	Cooling/Heating		A	7.0/10.0	7.0/10.0	9.0/13.5
Annual Energy Consumption	Cooling		kWh/a	130	188	230
	Heating			967	1,330	1,645
Moisture Removal			l/h	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	40/35/29/22	40/35/29/22	44/38/31/22
	Indoor (Heating)	H/M/L/Q		40/35/29/22	40/35/29/22	43/37/29/22
	Outdoor(Cooling/Heating)	High		47/48	48/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High		55/56	55/56	58/58
	Outdoor(Cooling/Heating)	High		64/65	64/65	65/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	570/1,680	570/1,680	650/1,910
	Indoor / Outdoor (Heating)	High		600/1,490	600/1,680	650/1,750
Net Dimensions H x W x D	Indoor		mm	600×740×200	600×740×200	600×740×200
	Outdoor		mm	540×790×290	540×790×290	578×790×300
Weight	Indoor		kg(lbs)	14 (31)	14 (31)	14 (31)
	Outdoor		kg(lbs)	36 (79)	36 (79)	40 (88)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)				13.8/15.8 to 16.7	13.8/15.8 to16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43	-10 to 43
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.05 (2.192)	1.05 (2.192)	1.15 (2.401)

Optional parts

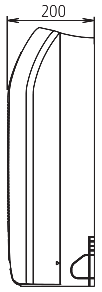
Wired Remote Controller:	UTY-RNNYM UTY-RVNYM	Network Convertor for single split (DC power supply type):	UTY-VTGX
		Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	External Connect Kit:	UTY-XWZX
External Switch Controller:	UTY-TERX	Half Concealed Kit:	UTR-STA
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1	MODBUS® Interface:	FJ-RC-MBS-1
		KNX® Interface:	FJ-RC-KNX-1i

Dimensions

(Unit : mm)



Front view



Side view

Floor/Ceiling

Comfort & Dual Design

Economy · 10°C HEAT · Auto Changeover · Double · Adjust · Restart · Sleep · Program · Filter

Flexible installation

Example for floor installation

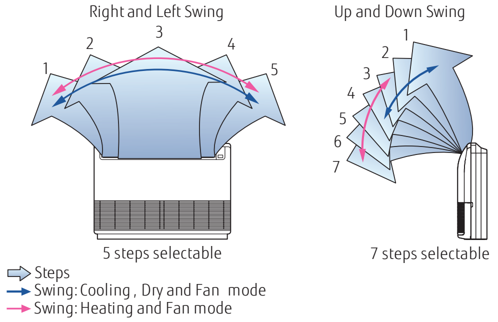
Floor console

Example for ceiling installation

Under ceiling

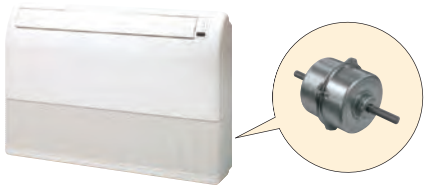
Double auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control

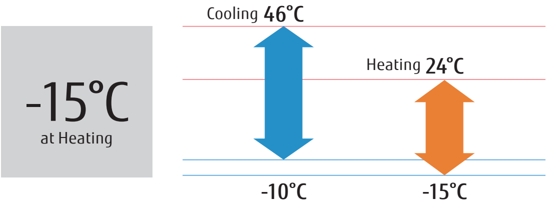


High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Low ambient operation



Model : ABYG18LVTB / ABYG24LVTA

Wireless R.C.

For ABYG18LVTB

For ABYG24LVTA

Specifications

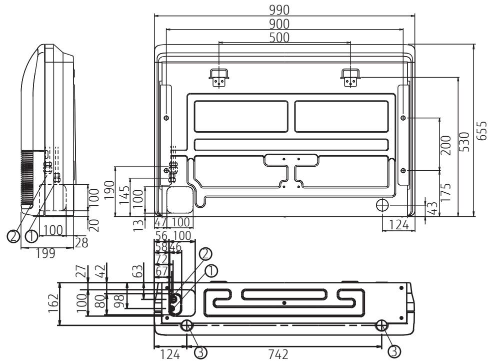
Model No.	Indoor unit			ABYG18LVTB	ABYG24LVTA
	Outdoor unit			AOYG18LBCB	AOYG24LBCB
Power Source				Single phase, ~230V, 50Hz	
Capacity	Cooling		kW	5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating			6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating		kW	1.62/1.66	2.21/2.26
EER	Cooling		W/W	3.21	3.08
COP	Heating			3.61	3.54
Pdesign	Cooling/Heating(-10°C)		kW	5.2/5.2	6.8/6.0
SEER	Cooling		W/W	6.10	5.60
SCOP	Heating (Average)			4.00	3.90
Energy Efficiency Class	Cooling			A++	A+
	Heating (Average)			A+	A
Max. Operating Current	Cooling/Heating		A	11.5/13.5	14.7/15.7
Annual Energy Consumption	Cooling		kWh/a	298	425
	Heating			1,818	2,153
Moisture Removal			l/h	2.0	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/40/34/31	48/44/40/35
	Indoor (Heating)	H/M/L/Q		43/40/34/31	48/44/40/35
	Outdoor(Cooling/Heating)	High		50/50	53/54
Sound Power Level	Indoor(Cooling/Heating)	High		57/57	61/61
	Outdoor(Cooling/Heating)	High		62/65	66/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	780/2,380	980/2,850
	Indoor / Outdoor (Heating)	High		780/2,080	980/2,700
Net Dimensions H x W x D	Indoor		mm	199×990×655	199×990×655
	Outdoor		mm	632×799×290	716×820×315
Weight	Indoor		kg(lbs)	27 (60)	27 (60)
	Outdoor		kg(lbs)	36 (79)	42 (93)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	30 (15)
Max Height Difference				15	20
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.20 (2.506)	1.50 (3.132)

Optional parts

Wired Remote Controller:	UTY-RNNYM	Network Convertor for single split (DC power supply type):	UTY-VTGX
	UTY-RVNYM	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	External Connect Kit:	UTY-XWZX
External Switch Controller:	UTY-TERX	MODBUS® Interface:	FJ-RC-MBS-1
Wireless LAN Interface:	UTY-TFNXZ1	KNX® Interface:	FJ-RC-KNX-1i
	FJ-RC-WIFI-1		

Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

NEW

Ceiling

ALL DC

Economy Return Auto Changeover Up/Down Adjust Restart Duct Auto OFF Weekly Filter On/Off

Light Elegant Design

Light-elegant and three-dimensional expression composed of curved surface gives comfort and wellbeing.

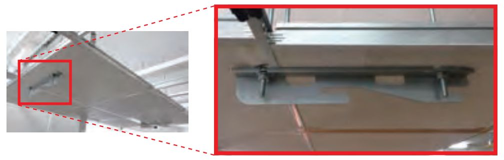
Flexible installation

Drain hose and piping can be set in the casing and drawn out flexibly in the right, left, side and down directions.

Easy installation

The indoor unit can be easily installed under the ceiling due to the new designed mounting.

1. Set mounting brackets



2. Hold up the ceiling and fit the ceiling to the mounting brackets

3. Attach with screws

Easy maintenance

The front panel can be opened without removing for safe & speedy maintainance.

Drain pan can be taken off for cleaning.

Components in the control box can be easily accessed from the widely open side.

Model : ABYG18KRTA / ABYG22KRTA / ABYG24KRTA / ABYG30KRTA / ABYG36KRTA / ABYG45KRTA
ABYG36KRTA [3 phase] / ABYG45KRTA [3 phase] / ABYG54KRTA [3phase]

ABYG18/22KRTA

ABYG24/30KRTA

ABYG36/45/54KRTA

For ABYG18/22KRTA

For ABYG24KRTA

For ABYG30/36KRTA

For ABYG45/54KRTA

Specifications

Model No.				ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA
	Indoor unit			ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA
	Outdoor unit			AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Power Source				Single phase, ~230V, 50Hz						3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	5.2(0.9-5.9)	6.0(0.9-6.7)	6.8(0.9-8.0)	8.5(2.8-10.0)	9.5(2.8-11.2)	12.1(4.0-13.5)	9.5(2.8-11.2)	12.1(4.0-13.5)	13.4(4.5-14.5)
	Heating			6.0(0.9-7.5)	7.0(0.9-8.0)	7.5(0.9-9.1)	10.0(2.7-11.2)	10.8(2.7-12.7)	13.5(4.2-16.2)	10.8(2.7-12.7)	13.5(4.2-16.2)	15.5(4.7-16.5)
Input Power	Cooling/Heating		kW	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96 / 2.88	4.22 / 3.84	2.96/2.88	4.22/3.84	4.45/4.43
EER	Cooling		W/W	3.35	3.21	3.18	3.21	3.21	2.87	3.21	2.87	3.01
COP	Heating			3.70	3.59	3.81	3.61	3.75	3.52	3.75	3.52	3.5
Pdesign	Cooling/Heating(-10°C)		kW	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5 / 8.7	12.1 / 9.2	9.5/8.7	12.1/9.2	13.4/-
SEER	Cooling		W/W	6.2	6.1	6.2	6.1	6.37	-	6.37	-	-
SCOP	Heating (Average)			4.1	4.0	4.1	4.0	4.21	-	4.21	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	-	A++	-	-
	Heating (Average)			A+	A+	A+	A+	A+	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6 / 22.6	28.5 / 28.5	10.5/10.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	293	344	384	486	524	-	524	-	-
	Heating			1,501	1,677	2,042	2,796	2,904	-	2,904	-	-
Moisture Removal			l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/-/-/-
	Indoor (Heating)	H/M/L/Q		38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/-/-/-
	Outdoor(Cooling/Heating)	High		50/50	51/51	53/54	53/55	55 / 55	57 / 57	55/55	57/57	57/59
Sound Power Level	Indoor(Cooling/Heating)	High		53/53	57/57	56/56	60/60	59 / 59	60 / 60	59/59	60/60	63/63
	Outdoor(Cooling/Heating)	High		62/62	63/63	65/66	68/69	70 / 70	71 / 71	70/70	71/71	73/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450	2,100/4,450
	Indoor / Outdoor (Heating)	High		840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450	2,100/4,450
Net Dimensions H x W x D	Indoor		mm	235×1,080×705	235×1,080×705	235×1,390×705	235×1,390×705	235×1,700×705	235×1,700×705	235×1,700×705	235×1,700×705	235×1,700×705
	Outdoor		mm	632×799×290	632×799×290	716×820×315	788×940×320	788×940×320	998×940×320	788×940×320	998×940×320	998×940×320
Weight	Indoor		kg(lbs)	24(53)	24(53)	31(68)	31(68)	38(84)	38(84)	38(84)	38(84)	38 (84)
	Outdoor		kg(lbs)	36(79)	38(84)	42(93)	52(115)	52(115)	67(148)	53(117)	67(148)	67(148)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52 / 15.88	9.52 / 15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25 / 32	25 / 32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	30(20)	30(20)	30(20)	50(30)	50 (30)	50 (30)	50(30)	50(30)	50(30)
Max Height Difference				20	25	25	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)	R32 (675)	R32 (675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.7(1.823)

Optional parts

Compact Remote Controller: UTY-RCRYZ1
Wired Remote Controller (Touch Panel): UTY-RNRYZ3
Wired Remote Controller : UTY-RLRY
Simple Remote Controller (Without operation mode): UTY-RHRY
Simple Remote Controller: UTY-RSRY
External Switch Controller : UTY-TERX
External input and output PCB : UTY-XCSX
External input and output PCB Box : UTZ-GXEA

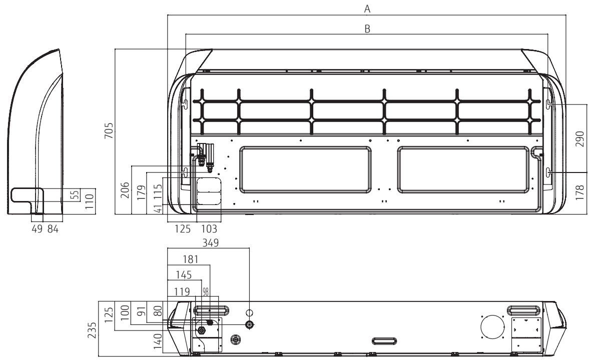
External Connect Kit : UTY-XWZXZG
Wireless LAN Interface: UTY-TFSXZ1
MODBUS® Convertor: UTY-VMSX
KNX® Convertor UTY-VKSX
Drain Pump Unit: UTR-DPB24T
IR Receiver Unit : UTY-LBTYH
L-Type Piping Kit: UTP-FX24A (18/22/24)
UTP-FX35A (30/36/45/54)

Network Convertor for single split (DC power supply type): UTY-VTGX
Network Convertor for single split (AC power supply type): UTY-VTGXV

(Outdoor unit 30/36/45/54)
External Connect Kit: UTY-XWZXZ3

Dimensions

(Unit : mm)



	ABYG18/22KRTA	ABYG24/30KRTA	ABYG36/45/54KRTA
A	1,080	1,390	1,700
B	923	1,233	1,543

Ceiling

Comfort for Large Room

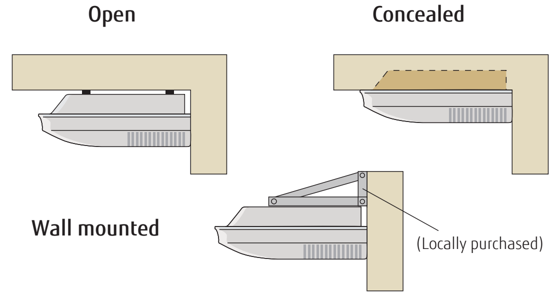
ALL DC

Economy · 10°C HEAT · Auto Changeover · Double · Adjust · Restart · Duct · Sleep · Program · Filter · Blue Fin

(45)

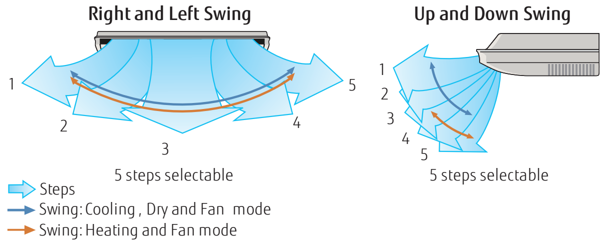
Flexible installation

Various installations are possible to match the room layout.

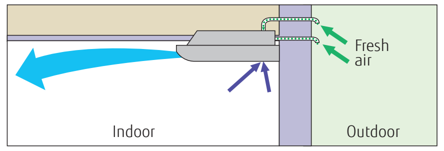


Multi auto swing

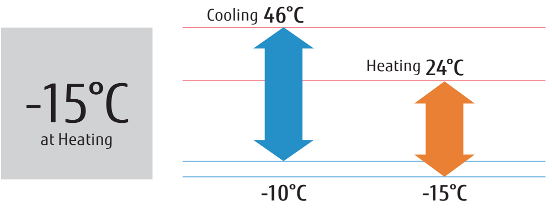
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Fresh air intake



Low ambient operation



**Model : ABYG30LRTE / ABYG36LRTE / ABYG45LRTA /
ABYG36LRTA [3 phase] / ABYG45LRTA [3 phase] / ABYG54LRTA [3 phase]**

Wireless R.C.

For ABYG30/36LRTE

For ABYG45LRTA
(Single phase)

For ABYG36/45/54LRTA

Specifications

Model No.				ABYG30LRTE	ABYG36LRTE	ABYG45LRTA	ABYG45LRTA	ABYG36LRTA	ABYG45LRTA	ABYG54LRTA
	Indoor unit / Outdoor unit			AOYG30LETL	AOYG36LETL	AOYG45LBTC	AOYG45LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source				Single phase, ~230V, 50Hz				3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.0)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)
	Heating			10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.2)	13.3 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)
Input Power	Cooling/Heating		kW	2.65/2.77	2.93/3.02	4.29/3.84	3.77/3.68	2.84/2.87	3.89/3.88	4.65/4.67
EER	Cooling		W/W	3.21	3.21	2.82	3.21	3.52	3.21	3.01
COP	Heating			3.61	3.71	3.46	3.61	3.90	3.61	3.43
Pdesign	Cooling/Heating(-10°C)		kW	8.5/8.0	9.4/8.7	-	-	10.0/10.0	-	-
SEER	Cooling		W/W	6.10	6.00	-	-	6.10	-	-
SCOP	Heating			4.20	4.10	-	-	4.10	-	-
Energy Efficiency Class	Cooling			A++	A+	-	-	A++	-	-
	Heating			A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	17.0/17.0	18.5/20.0	23.5/23.5	20.5/20.5	7.9/7.9	8.9/8.9	9.9/9.9
Annual Energy Consumption	Cooling		kWh/a	487	548	-	-	573	-	-
	Heating			2,662	2,965	-	-	3,414	-	-
Moisture Removal			l/h	2.5	3.0	4.0	4.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	45/43/37/32	47/43/37/32	49/45/39/34	49/45/39/34	47/43/37/32	49/45/39/34	51/48/42/38
	Indoor (Heating)	H/M/L/Q		45/43/37/32	47/43/37/32	49/45/39/34	49/45/39/34	47/43/37/32	49/45/39/34	51/48/42/38
	Outdoor(Cooling/Heating)	High		53/55	54/55	58/58	55/55	51/53	54/54	55/56
Sound Power Level	Indoor(Cooling/Heating)	High		57/60	60/61	-	-	61/61	-	-
	Outdoor(Cooling/Heating)	High		68/69	69/70	-	-	67/69	-	-
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,660/3,600	1,900/3,800	2,100/4,650	2,100/6,750	1,900/6,200	2,100/6,750	2,300/6,900
	Indoor / Outdoor (Heating)	High		1,660/3,600	1,900/3,800	2,100/4,650	2,100/6,200	1,900/6,200	2,100/6,200	2,300/6,900
Net Dimensions H x W x D	Indoor		mm	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700
	Outdoor		mm	830×900×330	830×900×330	914×970×370	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
Weight	Indoor		kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	48 (106)
	Outdoor		kg(lbs)	61 (134)	61 (134)	75 (165)	86 (190)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)			mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)				22.0/25.6	22.0/25.6	21.5/26.0	21.5/26.0	22.0/25.6	21.5/26.0	21.5/26.0
Max Pipe Length (Pre-Charge)			m	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference				30	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	2.10 (4.385)	2.10 (4.385)	2.90 (6.055)	3.35 (6.995)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)

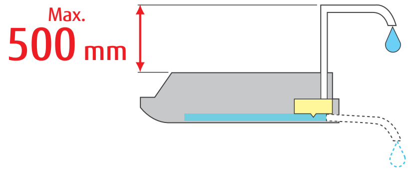
Optional parts

Wired Remote Controller:	UTY-RNNYM UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
External Switch Controller:	UTY-TERX
Wireless LAN Interface:	UTY-TFNXZ1 FJ-RC-WIFI-1
External Connect Kit:	UTY-XWZX UTD-ECS5A
Flange (Round):	UTD-RF204

Drain Pump Unit:	UTR-DPB24T
Network Convertor for single split (DC power supply type):	UTY-VTGX
Network Convertor for single split (AC power supply type):	UTY-VTGXV
MODBUS® Interface:	FJ-RC-MBS-1
KNX® Interface:	FJ-RC-KNX-1i

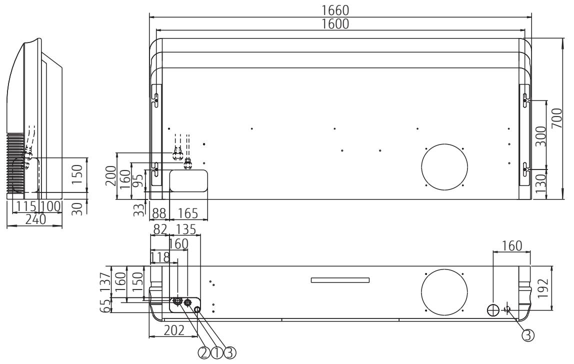
(Outdoor unit AOYG36/45/54LATT)

External Connect Kit:	UTY-XWZXZ2



Dimensions

(Unit : mm)



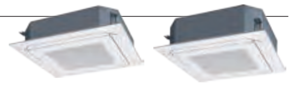
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

ECO Series Lineup Specifications

Compact cassette

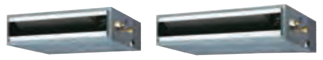
Model No.	Indoor unit			AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
	Outdoor unit			AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA	AOYG22KATA	AOYG24KATA
Power Source				Single phase, ~230V, 50Hz					
Capacity	Cooling		kW	2.5(0.9-2.7)	3.5(0.9-3.7)	4.3(0.9-4.5)	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)
	Heating			3.2(0.9-3.9)	4.1(0.9-4.4)	5.0(0.9-5.3)	6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)
Input Power	Cooling/Heating		kW	0.68/0.88	1.09/1.17	1.37/1.42	1.69/1.72	1.95/2.00	2.26/2.08
EER	Cooling		W/W	3.68	3.21	3.14	3.08	3.08	3.01
COP	Heating			3.64	3.50	3.52	3.49	3.50	3.61
Pdesign	Cooling/Heating(-10°C)		kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	6.0/4.4	6.8/5.4
SEER	Cooling		W/W	6.2	6.1	6.1	6.1	6.1	5.9
SCOP	Heating			4.0	4.0	4.0	3.9	3.9	3.8
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	A+
	Heating			A+	A+	A+	A	A	A
Max. Operating Current	Cooling/Heating		A	6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1	11.6/11.6	12.6/12.6
Annual Energy Consumption	Cooling		kWh/a	141	201	247	298	344	403
	Heating			804	979	1,120	1,362	1,578	1,988
Moisture Removal			l/h	0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/31/29/27	37/34/30/27	38/34/30/27	38/34/30/26	44/42/36/30	49/44/36/30
	Indoor (Heating)	H/M/L/Q		34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
	Outdoor(Cooling/Heating)	High		47/48	49/50	50/51	51/52	52/53	54/55
Sound Power Level	Indoor(Cooling/Heating)	High		46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor(Cooling/Heating)	High		60/60	62/62	63/63	63/64	64/65	66/67
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	540/1,610	600/1,630	680/1,670	680/1,710	830/2,240	930/2,885
	Indoor / Outdoor (Heating)	High		540/1,550	600/1,410	800/1,580	800/1,840	860/2,240	930/2,350
Net Dimensions H x W x D	Indoor		mm	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570
	Outdoor		mm	541×663×290	541×663×290	542×799×290	542×799×290	632×799×290	632×799×290
Weight	Indoor		kg(lbs)	15(33)	15(33)	15(33)	15(33)	16(35)	16(35)
	Outdoor		kg(lbs)	23(51)	25(55)	32(71)	33(73)	36(79)	38(84)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	15 (15)	15 (15)	20 (15)	20 (15)	25 (15)	25(20)
Max Height Difference				15	15	15	15	20	20
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	0.6(0.405)	0.7(0.473)	0.85(0.574)	0.9(0.608)	1.1(0.743)	1.25(0.844)
Cassette Grille	Model name			UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
	Dimensions (H × W × D)		mm	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620
	Weight		kg(lbs)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)

Circular cassette



Model No.	Indoor unit			AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
	Outdoor unit			AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG54KATA	AOYG36KQTA	AOYG45KQTA	AOYG54KQTA
Power Source				Single phase, ~230V, 50Hz							3 phase, ~400V, 50Hz		
Capacity	Cooling		kW	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	13.4(4.5-13.8)	9.5(2.8-10.6)	12.1(4.0-12.6)	13.4(4.5-13.8)
	Heating			6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	15.5(4.7-16.0)	10.8(2.7-12.5)	13.5(4.2-15.0)	15.5(4.7-16.0)
Input Power	Cooling/Heating		kW	1.60/1.66	1.85/1.93	2.12/1.97	2.56/2.64	3.06/2.58	4.32/3.77	4.87/4.86	3.06/2.58	4.32/3.77	4.87/4.86
EER	Cooling		W/W	3.25	3.24	3.21	3.32	3.10	2.80	2.75	3.10	2.80	2.75
COP	Heating			3.61	3.63	3.81	3.79	4.19	3.58	3.19	4.19	3.58	3.19
Pdesign	Cooling/Heating(-10°C)		kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-	-
SEER	Cooling		W/W	6.2	6.2	6.1	6.1	6.1	-	-	6.1	-	-
SCOP	Heating			4.1	4.1	4.0	4.0	4.0	-	-	4.0	-	-
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++	-	-	A++	-	-
	Heating			A+	A+	A+	A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A	10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	28.1/28.1	10.5/10.5	13.6/13.6	13.6/13.6
Annual Energy Consumption	Cooling		kWh/a	293	338	390	488	545	-	-	545	-	-
	Heating			1,297	1,502	1,887	2,794	3,044	-	-	3,044	-	-
Moisture Removal			l/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)	H/M/L/Q		33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35	47/43/40/36
	Outdoor(Cooling/Heating)	High		51/52	52/53	54/55	53/55	55/55	58/59	58/61	55/55	60/60	61/61
Sound Power Level	Indoor(Cooling/Heating)	High		47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	-/-	-/-
	Outdoor(Cooling/Heating)	High		63/64	64/65	66/67	68/69	70/70	72/73	74/75	70/70	72/73	74/75
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,050/1,710	1,050/2,240	1,150/2,885	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450	2,100/4,450
	Indoor / Outdoor (Heating)	High		1,050/1,840	1,050/2,240	1,150/2,350	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,780	1,870/3,750	2,000/4,450	2,100/4,780
Net Dimensions H x W x D	Indoor		mm	246×840×840	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840
	Outdoor		mm	542×799×290	632×799×290	632×799×290	788×940×320	788×940×320	998×940×320	998×940×320	788×940×320	998×940×320	998×940×320
Weight	Indoor		kg(lbs)	23(51)	23(51)	24(53)	26(57)	29(64)	29(64)	29(64)	29(64)	29(64)	29(64)
	Outdoor		kg(lbs)	33(73)	36(79)	38(84)	52(115)	52(115)	61(134)	63(139)	53(117)	62(137)	63(139)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	20 (15)	25 (15)	25(20)	30(30)	30(30)	30(30)	30(30)	30(30)	30(30)	30(30)
Max Height Difference				15	20	20	30	30	30	30	30	30	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	0.9(0.608)	1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.4(1.620)	2.4(1.620)	1.90(1.283)	2.4(1.620)	2.4(1.620)
Cassette Grille	Model name			UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color									
	Dimensions (H × W × D)		mm	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950
	Weight		kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

Slim Duct



Model No.	Indoor unit			ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP
	Outdoor unit			AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA
Power Source				Single phase, ~230V, 50Hz			
Capacity	Cooling		kW	2.5(0.9-2.7)	3.5(0.9-3.7)	4.3(0.9-4.5)	5.2(0.9-5.4)
	Heating			3.2(0.9-3.9)	4.1(0.9-4.4)	5.0(0.9-5.3)	6.0(0.9-6.3)
Input Power	Cooling/Heating		kW	0.69/0.88	1.09/1.17	1.37/1.42	1.66/1.71
EER	Cooling		W/W	3.62	3.21	3.14	3.13
COP	Heating			3.64	3.50	3.52	3.51
Pdesign	Cooling/Heating(-10°C)		kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8
SEER	Cooling		W/W	5.9	5.8	5.6	5.8
SCOP	Heating			3.8	3.8	3.8	3.8
Energy Efficiency Class	Cooling			A+	A+	A+	A+
	Heating			A	A	A	A
Max. Operating Current	Cooling/Heating		A	6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1
Annual Energy Consumption	Cooling		kWh/a	148	211	269	313
	Heating			847	1,031	1,177	1,398
Moisture Removal			l/h	0.7	1.3	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		28/26/25/24	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High		47/48	49/50	50/51	51/52
Sound Power Level	Indoor(Cooling/Heating)	High		57/57	58/58	60/60	58/58
	Outdoor(Cooling/Heating)	High		60/60	62/62	63/63	63/64
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	600/1,610	650/1,630	800/1,670	940/1,710
	Indoor / Outdoor (Heating)	High		600/1,550	650/1,410	800/1,580	940/1,840
Static pressure range (Standard)			Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Net Dimensions H x W x D	Indoor		mm	198×700×620	198×700×620	198×700×620	198×900×620
	Outdoor		mm	541×663×290	541×663×290	542×799×290	542×799×290
Weight	Indoor		kg(lbs)	17(37)	17(37)	17(37)	20(44)
	Outdoor		kg(lbs)	23(51)	25(55)	32(71)	33(73)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	15 (15)	15 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	0.6(0.405)	0.7(0.473)	0.85(0.574)	0.9(0.608)

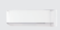
Medium Static Pressure Duct

Model No.	Indoor unit			ARXG22KMLA	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA
	Outdoor unit			AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA
Power Source				Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	9.5(2.8-10.6)	12.1(4.0-12.6)
	Heating			7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	10.8(2.7-12.5)	13.5(4.2-15.0)
Input Power	Cooling/Heating		kW	1.92/2.00	2.19/2.00	2.78/2.77	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18
EER	Cooling		W/W	3.13	3.11	3.06	3.04	2.50	3.04	2.50
COP	Heating			3.50	3.75	3.61	3.56	3.23	3.56	3.23
Pdesign	Cooling/Heating(-10°C)		kW	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	9.5/8.7	-
SEER	Cooling		W/W	5.8	5.9	5.8	5.6	-	5.6	-
SCOP	Heating			3.8	3.9	3.9	3.9	-	3.9	-
Energy Efficiency Class	Cooling			A+	A+	A+	A+	-	A+	-
	Heating			A	A	A	A	-	A	-
Max. Operating Current	Cooling/Heating		A	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6
Annual Energy Consumption	Cooling		kWh/a	362	403	513	594	-	594	-
	Heating			1,620	1,935	2,871	3,122	-	3,122	-
Moisture Removal			l/h	2.1	2.5	2.5	3.0	4.0	3.0	4.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31/29/27/25	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	39/35/30/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q		31/29/27/25	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/35/30/26	42/38/32/28
	Outdoor(Cooling/Heating)	High		52/53	54/55	53/55	55/55	58/59	55/55	58/59
Sound Power Level	Indoor(Cooling/Heating)	High		60/62	60/62	65/69	65/70	68/70	65/70	68/70
	Outdoor(Cooling/Heating)	High		64/65	66/67	68/69	70/70	72/73	70/70	72/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	1,100/2,240	1,100/2,885	1,900/3,750	1,900/3,750	2,100/4,450	1,900/3,750	2,100/4,450
	Indoor / Outdoor (Heating)	High		1,100/2,240	1,100/2,350	2,100/3,750	2,100/3,750	2,100/4,450	2,100/3,750	2,100/4,450
Static pressure range (Standard)			Pa	30 - 150 (35)	30 - 150 (35)	30 - 150 (47)	30 - 150 (47)	30 - 150 (60)	30 - 150 (47)	30 - 150 (60)
Net Dimensions H x W x D	Indoor		mm	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700
	Outdoor		mm	632×799×290	632×799×290	788×940×320	788×940×320	998×940×320	788×940×320	998×940× 320
Weight	Indoor		kg(lbs)	35(77)	35(77)	38(84)	38(84)	39(86)	38(84)	39(86)
	Outdoor		kg(lbs)	36(79)	38(84)	52(115)	52(115)	61(134)	53(117)	62(137)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	35.7/38.1	35.7/38.1
Max Pipe Length (Pre-Charge)			m	25 (15)	25(20)	30(30)	30(30)	30(30)	30(30)	30(30)
Max Height Difference				20	20	30	30	30	30	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.4(1.620)	1.9(1.283)	2.4(1.620)

Ceiling

Model No.	Indoor unit			ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KRTA	ABYG45KRTA
	Outdoor unit			AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA
Power Source				Single phase, ~230V, 50Hz						3 phase, ~400V, 50Hz	
Capacity	Cooling		kW	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	9.5(2.8-10.6)	12.1(4.0-12.6)
	Heating			6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	10.8(2.7-12.5)	13.5(4.2-15.0)
Input Power	Cooling/Heating		kW	1.66/1.71	1.95/2.09	2.19/2.00	2.78/2.86	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18
EER	Cooling		W/W	3.13	3.08	3.11	3.06	3.04	2.5	3.04	2.5
COP	Heating			3.51	3.35	3.75	3.5	3.56	3.23	3.56	3.23
Pdesign	Cooling/Heating(-10°C)		kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	12.1/9.2	9.5/8.7	12.1/9.2
SEER	Cooling		W/W	5.8	5.6	6.0	5.8	5.6	-	5.6	-
SCOP	Heating			3.8	3.8	3.9	3.9	3.9	-	3.9	-
Energy Efficiency Class	Cooling			A+	A+	A+	A+	A+	-	A+	-
	Heating			A	A	A	A	A	-	A	-
Max. Operating Current	Cooling/Heating		A	10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6
Annual Energy Consumption	Cooling		kWh/a	538	375	679	512	594	-	594	-
	Heating			1,398	1,618	1,935	2,871	3,117	-	3,117	-
Moisture Removal			l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/-/-/-	42/-/-/-	41/-/-/-	45/-/-/-	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34
	Indoor (Heating)	H/M/L/Q		38/-/-/-	42/-/-/-	41/-/-/-	45/-/-/-	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34
	Outdoor(Cooling/Heating)	High		51/52	52/53	54/55	53/55	55/55	58/59	55/55	58/59
Sound Power Level	Indoor(Cooling/Heating)	High		53/53	57/57	56/56	60/60	59/59	60/60	59/59	60/60
	Outdoor(Cooling/Heating)	High		63/64	64/65	66/67	68/69	70/70	72/73	70/70	72/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	m^3/h	840/1,710	900/2,240	1,230/2,885	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450
	Indoor / Outdoor (Heating)	High		840/1,840	900/2,240	1,230/2,350	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450
Net Dimensions H x W x D	Indoor		mm	235×1,080×705	235×1,080×705	235×1,390×705	235×1,390×705	235×1,700×705	235×1,700×705	235×1,700×705	235×1,700×705
	Outdoor		mm	542×799×290	632×799×290	632×799×290	788×940×320	788×940×320	988×940×320	788×940×320	998×940×320
Weight	Indoor		kg(lbs)	24(53)	24(53)	31(68)	31(68)	38(84)	38(84)	38(84)	38(84)
	Outdoor		kg(lbs)	33(73)	36(79)	38(84)	52(115)	52(115)	61(134)	53(117)	62(137)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)			m	20(15)	25(15)	25(20)	30(30)	30(30)	50(30)	30(30)	50(30)
Max Height Difference				15	20	20	30	30	30	30	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)
	Charge		kg(CO2eq-T)	0.9(0.608)	1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	1.90(1.283)	2.70(1.823)

Feature Summary

Type		Wall Mounted								Wall Mounted					
Series		Flagship Series	Designer Series		Standard Series			ECO Series		Designer Series		Standard Series			ECO Series
															
Model No.		ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, ASYG 07/09/12/14 KETA-B	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTA	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	ASYG 18/24KLCA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG 24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE
		R32	R32	R32	R32	R32	R32	R32	R32	R410A					
Energy Saving Function	Dual side fans	●													
	Save human sensor	●	●				●			●				●	
	Save & Stop human sensor														
	Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation		○		○	○	○			○	○	○	○	○	
	Set temperature auto return		○		○	○	○			○	○	○	○	○	
Comfortable Function	Powerful heating									●					
	Power diffuser	●										●	●		
	Server room operation													●	
	Powerful mode	●	●	●	●	●	●	●	●	●	●	●		●	●
	10°C HEAT operation	●	●	●	●	●	●			●	●	●	●	●	
	Low noise mode	●	●	●	●	●	●			●	●	●		●	
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps		●	●	●	●		●	●	●	●	●			●
	Double swing automatic	●				●	●						●	●	
	Automatic fan speed	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct														
	Fresh air intake														
	Connectable distributing duct														
	Individual airflow direction control														
Convenient Function	Auto off timer		○		○	○	○			○	○	○	○	○	
	Sleep timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Program timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Weekly timer		●	●	○	●	●			●	●			●	
	Weekly + setback timer		○		○	○	○			○	○	○	○	○	
	Filter sign		●	●	●	●	●	●	●	●	●	●	●	●	●
	External error output		○		○	○	○			○	○	○	○	○	
	External ON/OFF input		○		○	○	○			○	○	○	○	○	
	Wireless LAN control	●	○		○	○	○	○		○	○	○	○	○	
Clean Function	Plasma air clean	●													
	Filter auto clean	●													
	Ion deodorization filter		●	●	○	●	●			●	●	●	●	●	
	Apple-catechin filter		●	●	○	●	●			●	●	●	●	●	
	Long life filter														
	Washable panel		●	●		●		●	●			●	●		●
Installation	Automatic airflow adjustment														
	Drain pump as standard														
	Blue fin						●						● (30)	●	

○: Optional function

Feature Summary

Type		Cassette					Duct			Duct							Floor	Floor/ Ceiling	Ceiling	
Series		Compact 4-way Flow Series		Circular Flow Series		4-way Flow Series	Mini (With drain pump)	Slim (With drain pump)		Medium Static Pressure (Compact & Comfort)		Medium Static Pressure (Standard)		High Static Pressure		Big				
																				
Model No.		AUXG 09/12/14/ 18/22/24 KVLA	AUYG 12/14/18 LVLB, AUYG 24LVLA	AUXG 18/22/24/ 30/36/45/54 KRLB	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARXG 09/12/14/18 KLLAP	ARYG 12/14/18 LLTB	ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP	ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP	ARXG 22/24/ 30/36/45 KMLA	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARXG 45/54KHTA	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 18LVTB, ABYG 24LVTA	ABYG 18/22/24 30/36/45/54 KRTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA
		R32	R410A	R32	R410A		R410A	R32	R410A	R32	R410A	R32	R410A	R32	R410A		R410A		R32	R410A
Energy Saving Function	Dual side fans																			
	Save human sensor																			
	Save & Stop human sensor			○	○															
	Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	○	○	●	●	○	●	○	○	●	●	○	○	○	○	●	○	○	○	○
	Set temperature auto return	●	○	●	●	○	●	●	○	●	●	●	○	●	○	●	○	○	●	○
Comfortable Function	Powerful heating																			
	Power diffuser																			
	Server room operation																			
	Powerful mode																			
	10°C HEAT operation	●	●	○	○	○	○	○	○	○	○	○	○		○ (60)	○	●	●	○	●
	Low noise mode			○ (45/54)	○ (45/54)					○ (45/54)	○ (45/54)	○ (45)(36LMLA)	○ (45)(36LMLA)	○	○	○			○	○ (45/54)(36LRTA)
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	●	●	●	●	●	○	○	○								●		●	
	Double swing automatic																	●		●
	Automatic fan speed	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct		○	●	●	●				●	●	●	●						●	●
	Fresh air intake	○	○	○	○	○		○	○	○	○	○	○	○	○	○			○	○
	Connectable distributing duct			●	●	●						●	●							
	Individual airflow direction control			●	●															
Convenient Function	Auto off timer	●	○	●	●	○	●	●	○	●	●	●	○	●	○	●	○	○	●	○
	Sleep timer	●	●	○	○	○	○	○	○	○	○	○	○		○ (60)	○	●	●	○	●
	Program timer	●	●	○	○	○	○	○	○	○	○	○	○		○ (60)	○	●	●	○	●
	Weekly timer	●		●	●		●	●		●	●	●		●		●			●	
	Weekly + setback timer	○	○			●		●	●			●	●	●	●		○	○		○
	Filter sign	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External error output			○	○		○			○	○					○			○	
	External ON/OFF input	●	○	●	●	○	●	●	○	●	●	●	○	●	○	●	○	○	●	○
	Wireless LAN control	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Clean Function	Plasma air clean																			
	Filter auto clean																			
	Ion deodorization filter																●			
	Apple-catechin filter																●			
	Long life filter									○	○	○	○		○ (60)	○	●			
	Washable panel																			
Installation	Automatic airflow adjustment									●	●					●				
	Drain pump as standard	●	●	●	●	●	●	●	●	●	●	○	○			○			○	○
	Blue fin			● (30/36/45/54)	● (30/36/45/54)	● (45/54)				● (30/36/45/54)	● (30/36/45/54)	● (45)	● (45)	●	●	●				● (45)

○: Optional function

Light Commercial & Residential

MULTI-SPLIT

REFRIGERANT R32

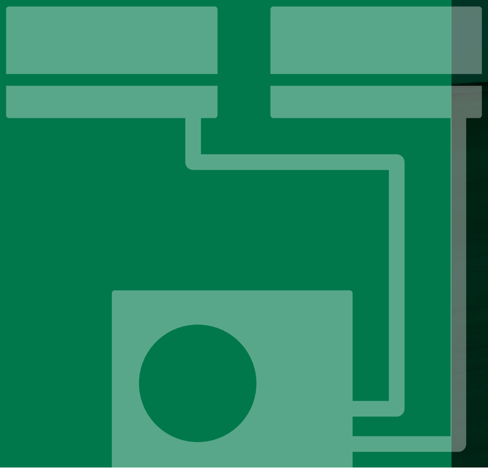
Refrigerant type R32 models

REFRIGERANT R410A

Refrigerant type R410A models

2-unit to 8-unit Multi-split

Simultaneous Multi-split



Control several indoor units with one outdoor unit. Build the system you desire.

If you want to keep a large floor as well as many rooms comfortable, we recommend to use our Multi-split to build a compact system using just one outdoor unit. Choose from a large lineup of indoor units, which match up well to your rooms. You can mix and match them as you like. Build the system that is just right for you.

Multi-split Overview

Space-saving Multi-split outdoor units can connect up to 8 indoor units in multiple rooms. New refrigerant R32 models are additionally added. Multi-split type can be introduced in various situations like in homes, in offices and stores to provide environment-friendly comfort.

3-unit, 4-unit, 5-unit Multi-split

3-unit, 4-unit Multi-split

REFRIGERANT R410A

3-unit
18/24 class

4-unit 30 class

5-unit Multi-split

REFRIGERANT R410A

36/45 class

2-unit Multi-split

REFRIGERANT R32

14 class

18 class

8-unit Multi-split

REFRIGERANT R410A

45 class

2-unit to 8-unit Multi-split

2-unit to 8-unit Multi-split types units are recommended for situations that require air conditioning in multiple rooms such as in family house or offices. Between 2 to 8 indoor units can be connected and individually operated. A variation of individual and central remote controller are available for operation control, time scheduling of each room and energy savings. Due to space-saving outdoor unit enables installation on balcony or under a waist-high window.

Twin/Triple

REFRIGERANT R32

Twin 36 class
(Single phase/3 phase)

Twin/Triple 45/54 class
(Single phase/3 phase)

Twin/Triple

36/45/54 class
(Single phase/3 phase)

Twin/Triple/ Double Twin

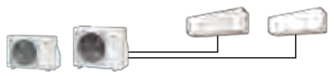
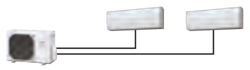
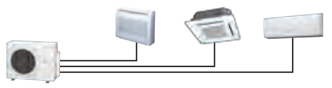
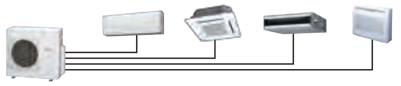
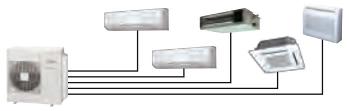
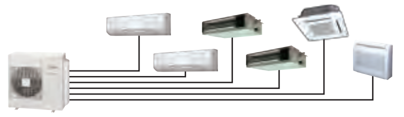
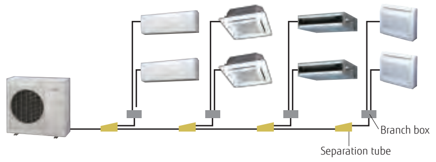
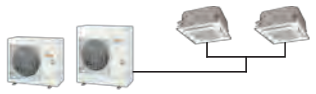
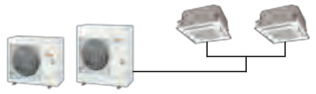
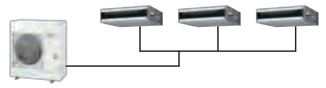
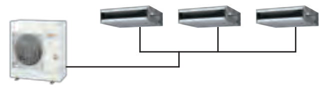
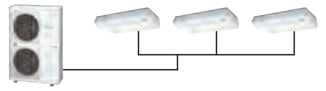
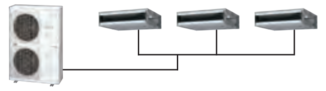
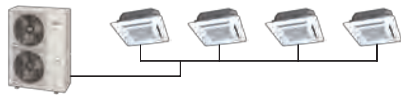
REFRIGERANT R410A

72/90 class
(3 phase)

Simultaneous Multi-split

Simultaneous Multi-split type is recommended for situations where multiple indoor units need to be operated simultaneously such as for a small building, for small office building entrance, meeting room, educational facility hall, and other large spaces. Up to 4 indoor units can be operated simultaneously. This type is suitable for office spaces with large areas and properties with unusual floor layout.

Outdoor Units Lineup

			Class	14	18	18	24	30	36	45		54	72	90
			Cooling rated capacity(kW)	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0	14.0	19.0	22.0
2-unit, 3-unit, 4-unit Multi-split	2-unit Multi-split Up to 2 units	REFRIGERANT R32		AOYG14KBTA2	AOYG18KBTA2									
		REFRIGERANT R410A		AOYG14LAC2	AOYG18LAC2									
	3-unit Multi-split Up to 3 units	REFRIGERANT R410A				AOYG18LAT3*	AOYG24LAT3*							
	4-unit Multi-split Up to 4 units							AOYG30LAT4*						
5-unit, 6-unit Multi-split	5-unit Multi-split Up to 5 units	REFRIGERANT R410A							AOYG36LBLA5*					
	6-unit Multi-split Up to 6 units									AOYG45LBLA6*				
8-unit Multi-split Up to 8 units		REFRIGERANT R410A									AOYG45LBT8*			
Simultaneous Multi-split	Twin Single phase	REFRIGERANT R32							AOYG36KBTB	AOYG45KBTB				
	Twin 3 phase		 NEW						AOYG36KRTA	AOYG45KRTA				
	Twin/Triple Single phase	REFRIGERANT R32										AOYG54KBTB		
	Twin/Triple 3 phase		 NEW									AOYG54KRTA		
	Twin/Triple Single phase	REFRIGERANT R410A							AOYG36LBTB	AOYG45LBTB*1		AOYG54LBTB*2		
	Twin/Triple 3 phase								AOYG36LATT	AOYG45LATT		AOYG54LATT		
	Twin/Triple/ Double Twin 3 phase	REFRIGERANT R410A											AOYG72LRLA	AOYG90LRLA

Note: **1. 2-unit Multi-split:** Connectable indoor units are 2 units.
AOYG14KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
AOYG18KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 7.5kW.
AOYG14LAC2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
AOYG18LAC2: Total capacity of indoor units connected must be between 4.0 kW and 7.0 kW.

2. 3-unit Multi-split: Connectable indoor units are 2 to 3 units.
AOYG18LAT3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
AOYG24LAT3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

3. 4-unit Multi-split: Connectable indoor units are 3 to 4 units.
AOYG30LAT4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

4. 5-unit Multi-split: Connectable indoor units are 2 to 5 units
AOYG36LBLA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

5. 6-unit Multi-split: Connectable indoor units are 2 to 6 units
AOYG45LBLA6 Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

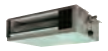
6. 8-unit Multi-split: Connectable indoor units are 2 to 8 units
AOYG45LBT8: Total capacity of indoor units connected must be between 11.0 kW and 18.0 kW.

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.

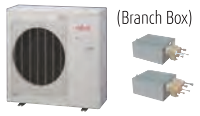
2-unit to 8-unit Multi-split Connectable Indoor Units

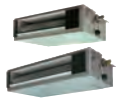
REFRIGERANT R32

Type		2-unit	
Model name		AOYG14KBTA2	AOYG18KBTA2
Multi-split Type Outdoor Unit			
Capacity (kW)	Cooling	4.0	5.0
	Heating	4.4	5.6

Indoor Unit	BTU	kW Class		
 ASYG 07/09/12/14 KGTB NEW  ASYG 07/09/12/14 KETA NEW  ASYG 07/09/12/14 KMCC NEW  ASYG 07/09/12/14 KETA-B	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 AUXG07/09/12/14KVLA	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 ARXG07/09/12/14KSLAP	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 ARXG07/09/12/14KLLAP	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●

REFRIGERANT R410A

Type		2-unit		3-unit		4-unit	5-unit	6-unit	8-unit
Model name		AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4	AOYG36LBLA5	AOYG45LBLA6	AOYG45LBT8
Multi-split Type Outdoor Unit									 (Branch Box)
Capacity (kW)	Cooling	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0
	Heating	4.4	5.6	6.8	8.0	9.6	12.0	13.5	16.0

Indoor Unit	BTU	kW Class								
 ASYG07/09/12/14LMCE  ASYG07/09/12/14LUCA	7,000	2.0	●	●	●	●	●	●	●	●
	9,000	2.5	●	●	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●	●	●
	14,000	4.0	–	●	●	●	●	●	●	●
 ASYG18/24LF	18,000	5.0	–	–	–	●	●	●	●	●
	24,000	7.0	–	–	–	–	●	–	●	●
NEW  ASYG07/09/12/14KMCC*	7,000	2.0	–	–	●	●	●	●	–	–
	9,000	2.5	–	–	●	●	●	●	–	–
	12,000	3.5	–	–	●	●	●	●	–	–
	14,000	4.0	–	–	●	●	●	●	–	–
 AGYG09/12/14LV	9,000	2.5	–	●	●	●	●	●	●	●
	12,000	3.5	–	●	●	●	●	●	●	●
	14,000	4.0	–	–	●	●	●	●	●	●
 AUYG07/09/12/14/18LV	7,000	2.0	–	●	●	●	●	●	●	●
	9,000	2.5	–	●	●	●	●	●	●	●
	12,000	3.5	–	●	●	●	●	●	●	●
	14,000	4.0	–	–	●	●	●	●	●	●
	18,000	5.0	–	–	–	●	●	●	●	●
 AGYG09/12/14LVCA	14,000	4.0	–	–	●	●	●	●	●	●
	18,000	5.0	–	–	–	●	●	●	●	●
 ARYG07/09/12/14/18LSLAP	7,000	2.0	–	●	●	●	●	●	●	–
	9,000	2.5	–	●	●	●	●	●	●	–
	12,000	3.5	–	●	●	●	●	●	●	–
	14,000	4.0	–	–	●	●	●	●	●	–
	18,000	5.0	–	–	–	●	●	●	●	–
 ARYG07/09/12/14/18LL	7,000	2.0	–	●	●	●	●	●	●	●
	9,000	2.5	–	●	●	●	●	●	●	●
	12,000	3.5	–	●	●	●	●	●	●	●
	14,000	4.0	–	–	●	●	●	●	●	●
	18,000	5.0	–	–	–	●	●	●	●	●

* When connecting 14 model to multi-split type outdoor unit for R410A refrigerant, Adapter H is required for its piping.

Simultaneous Multi-split Connectable Indoor Units

REFRIGERANT R32

Type		4HP		5HP		6HP	
Model name		AOYG36KBTB	AOYG36KRTA	AOYG45KBTB	AOYG45KRTA	AOYG54KBTB	AOYG54KRTA
Simultaneous Multi-split Outdoor Unit							
Capacity (kW)	Cooling	9.5		12.1		13.4	13.4
	Heating	10.8		13.5		15.5	15.5

Indoor Unit	BTU	kW Class	Twin			Triple
 AUXG18/22/24KVLA	18,000	5.0	● ×2	–	–	● ×3
	22,000	6.5	–	● ×2	–	–
	24,000	7.0	–	–	● ×2	–
 ARXG18KLLAP	18,000	5.0	● ×2	–	–	● ×3
 ARXG22/24KMLA	22,000	6.5	–	● ×2	–	–
	24,000	7.0	–	–	● ×2	–
Separation tube			UTP-SX236A (18/22/24)			UTP-SX354A (18)

REFRIGERANT R410A

Type		4HP		5HP		6HP		8HP	10HP
Model name		AOYG36LBTB	AOYG36LATT	AOYG45LBTB	AOYG45LATT	AOYG54LBTB	AOYG54LATT	AOYG72LRLA	AOYG90LRLA
Simultaneous Multi-split Outdoor Unit									
Capacity (kW)	Cooling	10.0		12.1	12.5	13.3	14.0	19.0	22.0
	Heating	11.2		14.0	14.0	15.0	16.0	22.4	27.0

Indoor Unit	BTU	kW Class	Twin			Triple	Twin	Triple	Double Twin	Twin	Triple	Double Twin
 AUYG18/22/24LV	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
	22,000	6.5	–	● ×2	–	–	–	–	–	–	–	● ×4
	24,000	7.0	–	–	● ×2	–	–	● ×3	–	–	–	–
 AUYG30/36/45LR	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	–
	45,000	12.5	–	–	–	–	–	–	–	● ×2	–	–
 ARYG18LLTB	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
 ARYG22/24/ 30/36/45LM	22,000	6.5	–	● ×2	–	–	–	–	–	–	–	● ×4
	24,000	7.0	–	–	● ×2	–	–	● ×3	–	–	–	–
	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	–
	45,000	12.5	–	–	–	–	–	–	–	● ×2	–	–
 ABYG/18/22/24LV	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
	22,000	6.5	–	● ×2	–	–	–	–	–	–	–	● ×4
	24,000	7.0	–	–	● ×2	–	–	● ×3	–	–	–	–
 ABYG30/36/45LR	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	–
	45,000	12.5	–	–	–	–	–	–	–	● ×2	–	–
Separation tube			UTP-SX236A ×1	UTP-SX254A ×1	UTP-SX254 ×1	UTP-SX354A ×1	UTP-SX272A ×1	UTP-SX372A ×1	UTP-SX272A x 1, UTP-SX236A x 2	UTP-SX272A ×1	UTP-SX372A ×1	UTP-SX272A ×1, UTP-SX254A ×2

2-unit Multi-split

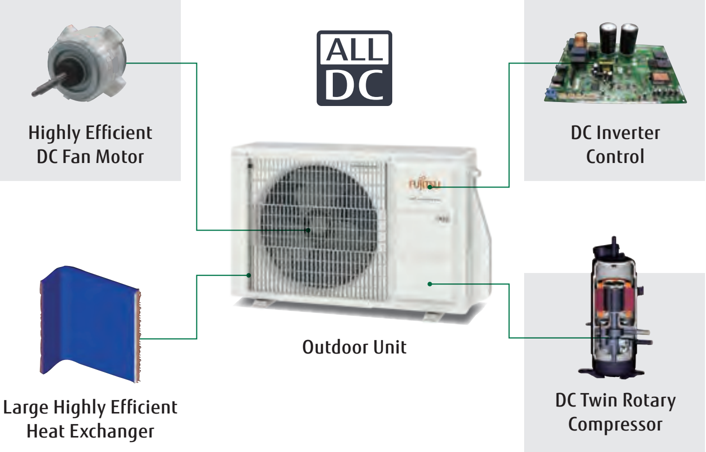
High energy saving

DC technology is used for compressor, indoor / outdoor fan motor and inverter controlling.

Rank
Cooling A+++
Heating A++

SEER 8.7[*1] **SCOP** 4.7

*1: 14 model



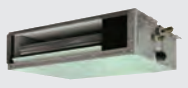
Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.

Models equipped with the New R32 Refrigerant

Wall mounted type with sophisticated design

Middle and small capacity models are available. This makes it easier to install at small spaces.



Mini Duct

Slim Duct

Compact Cassette

2-unit: AOYG14KBTA2 / AOYG18KBTA2

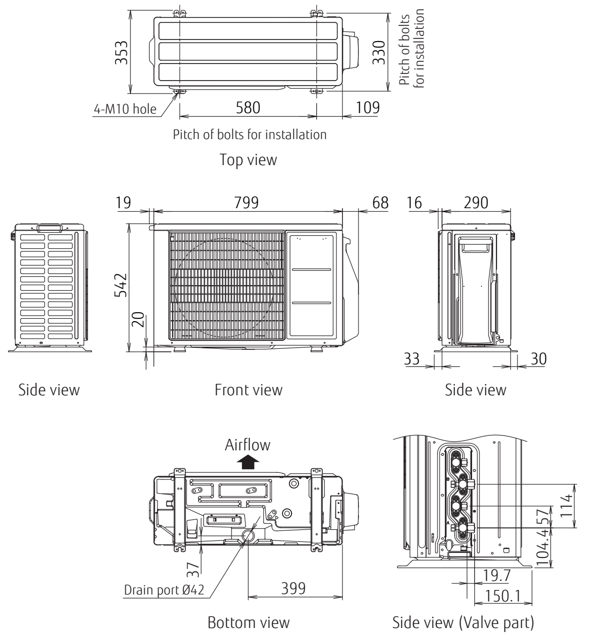
Specifications

Model No.			AOYG14KBTA2	AOYG18KBTA2
Power Source			Single phase, ~230V, 50Hz	
Rated Capacity (min-max)	Cooling	kW	4.0 (1.4-4.6)	5.0 (1.7-5.8)
	Heating		4.4 (1.1-5.5)	5.6 (1.8-6.6)
EER	Cooling	W/W	4.12	4.03
COP	Heating		4.63	4.59
Sound Pressure Level (High)	Cooling	dB(A)	47	47
	Heating		49	50
Sound Power Level (High)	Cooling		60	60
	Heating		62	62
Airflow Rate	Cooling/Heating	m^3/h	1,670/1,670	1,960/2,020
Net Dimensions H × W × D		mm	542×799×290	632×799×290
Weight		kg(lbs)	33 (73)	37 (82)
Connection Pipe Diameter	Liquid	mm	6.35×2	6.35×2
	Gas		9.52 × 2	9.52 × 2
Max. Pipe Length	Total / Each	m	30 / 20	30 / 20
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		15	15
	Between Indoor Units.		10	10
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)
	Charge	kg(CO2eq-T)	0.9 (0.608)	1.02 (0.689)

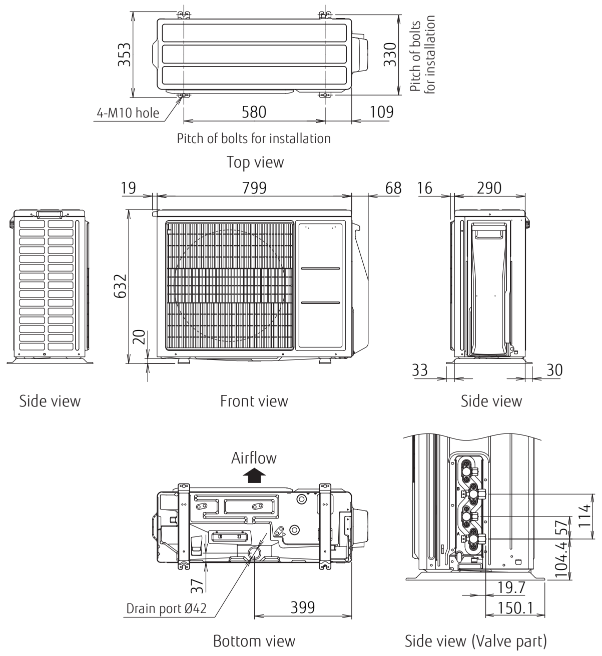
Dimensions

(Unit : mm)

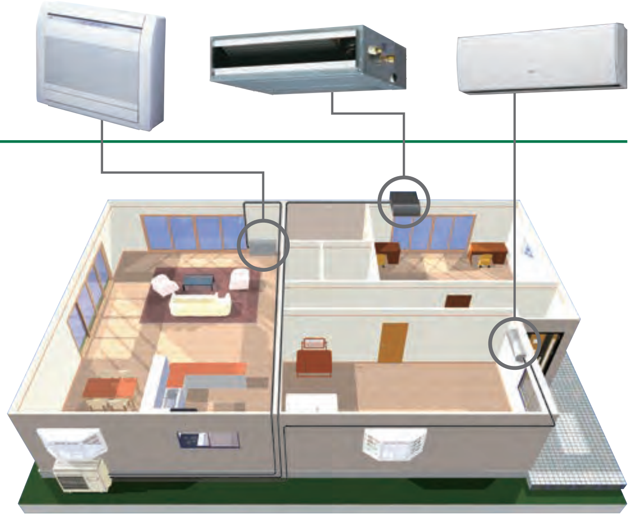
AOYG14KBTA2



AOYG18KBTA2



2-unit, 3-unit, 4-unit Multi-split

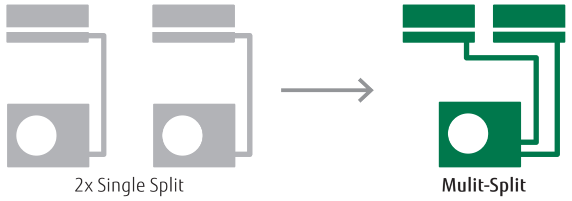


Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.

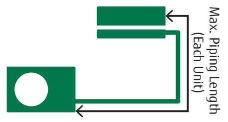
Space-saving installation

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.

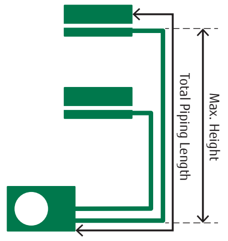


Flexible installation

Up to max. piping length of 70 m (AOYG30LAT4), max. height difference of 15 m can be supported. Multi-split type can be installed in large-size residence or buildings with multiple floors.



Max. Piping Length (Each Unit):
20 m: AOYG14LAC2,18LAC2,
25 m: AOYG18LAT3/24LAT3/30LAT4



Max. Height:
15 m: AOYG14LAC2/18LAC2/18LAT3/24LAT3/30LAT4

Total Piping Length:
30 m: AOYG14LAC2/18LAC2,
50 m: AOYG18LAT3/24LAT3,
70 m: AOYG30LAT4

2-unit: AOYG14LAC2 / AOYG18LAC2
3-unit: AOYG18LAT3 / AOYG24LAT3
4-unit: AOYG30LAT4

2-unit 3-unit 4-unit

Specifications (2-unit, 3-unit, 4-unit)

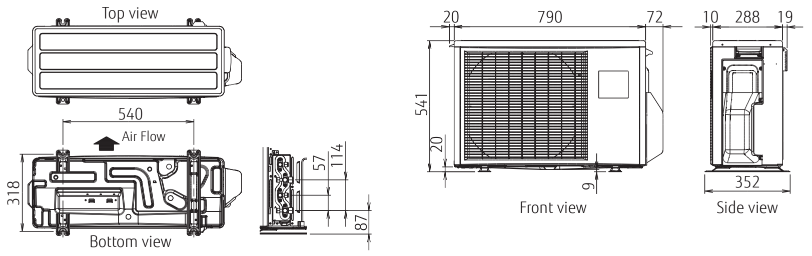
Model No.			AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
Power Source			Single phase, ~230V, 50Hz				
Rated Capacity (min-max)	Cooling	kW	4.0 (1.4-4.4)	5.0 (1.7-5.6)	5.4 (1.8-6.8)	6.8 (1.8-8.5)	8.0 (3.5-10.1)
	Heating		4.4 (1.1-5.4)	5.6 (1.8-6.1)	6.8 (2.0-8.0)	8.0 (2.0-9.2)	9.6 (3.7-12.0)
EER	Cooling	W/W	3.67	3.21	4.00	3.51	3.60
COP	Heating		4.27	3.97	4.20	4.00	4.00
Sound Pressure Level (High)	Cooling	dB(A)	47	50	48	48	50
	Heating		49	51	49	49	51
Sound Power Level (High)	Cooling		61	63	65	68	68
	Heating		63	64	67	70	70
Airflow Rate	Cooling/Heating	m^3/h	1,850/1,850	2,050/2,050	3,050/2,750	3,300/3,300	3,500/3,300
Net Dimensions H × W × D		mm	540×790×290	540×790×290	700×900×330	700×900×330	830×900×330
Weight		kg(lbs)	37 (82)	38 (84)	55 (121)	55 (121)	68 (150)
Connection Pipe Diameter	Liquid	mm	6.35×2	6.35×2	6.35×3	6.35×3	6.35×4 (*6.35×3, 9.52)
	Gas		9.52 × 2	9.52 × 2 *(9.52, 12.70)	9.52 × 2, 12.70 *(9.52 × 3)	9.52 × 2, 12.70 *(9.52 × 3)	9.52 × 2, 12.70 × 2 *(9.52 × 3, 12.70) *(9.52 × 2, 12.70, 15.88)
Max. Pipe Length	Total / Each	m	30 / 20	30 / 20	50 / 25	50 / 25	70 / 25
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		15	15	15	15	15
	Between Indoor Units.		10	10	10	10	10
Operation Range	Cooling	°CDB	10 to 46	10 to 46	-10 to 46	-10 to 46	0 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-10 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.25 (2.610)	1.30 (2.714)	2.20 (4.594)	2.20 (4.594)	3.30 (6.890)

* Connect to connection valve by the adapter.

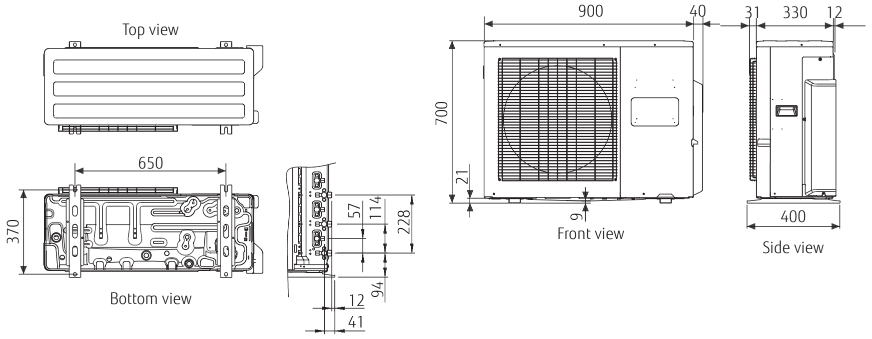
Dimensions

(Unit : mm)

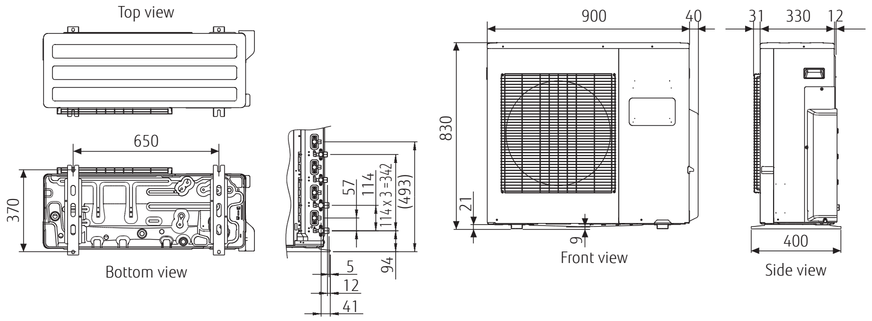
2-unit:
AOYG14LAC2/AOYG18LAC2



3-unit:
AOYG18LAT3/AOYG24LAT3



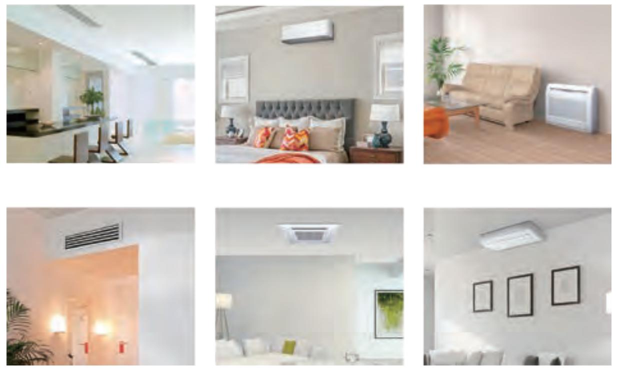
4-unit:
AOYG30LAT4



5-unit, 6-unit Multi-split

Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



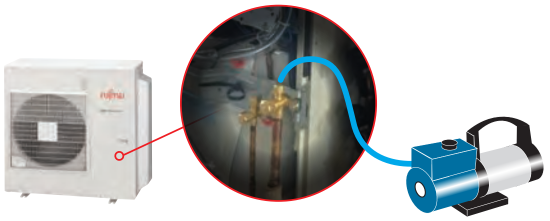
Compact design

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.
Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.

970 mm

Easy installation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method.
Requires evacuation only once

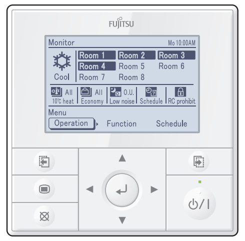


Central & Individual Control

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable
1 multi system

Max. Controllable
8 indoor units



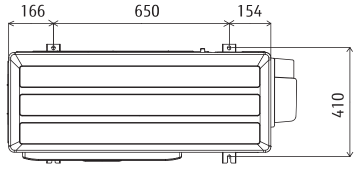
5-unit: AOYG36LBLA5
6-unit: AOYG45LBLA6

Specifications (5-unit, 6-unit)

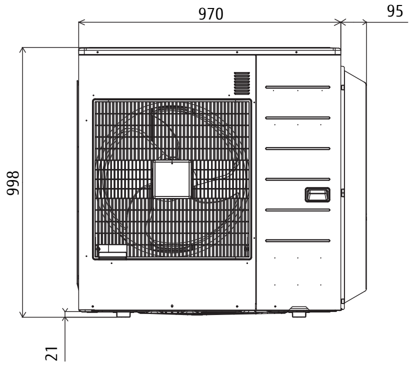
Model No.			AOYG36LBLA5	AOYG45LBLA6
Power Source			Single phase, ~230V, 50Hz	
Rated Capacity (min-max)	Cooling	kW	10.0 (3.5-12.5)	12.5 (3.5-14.0)
	Heating		12.0 (3.5-14.0)	13.5 (3.5-16.0)
EER	Cooling	W/W	4.10	3.50
COP	Heating		4.30	4.00
Sound Pressure Level (High)	Cooling	dB(A)	53	53
	Heating		55	55
Sound Power Level (High)	Cooling		67	-
	Heating		68	-
Airflow Rate	Cooling/Heating	m³/h	4,200/4,200	4,200/4,200
Net Dimensions H × W × D		mm	998×970×370	998×970×370
Weight		kg(lbs)	94 (207)	94 (207)
Connection Pipe Diameter	Liquid	mm	6.35×5	6.35×6
	Gas		9.52 × 3, 12.70 × 2	9.52 × 4, 12.70 × 2
Max. Pipe Length	Total / Each	m	80 / 25	80 / 25
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		15	15
	Between Indoor Units.		10	10
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.00 (8.352)	4.00 (8.352)

Dimensions

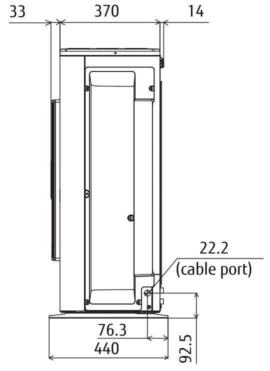
(Unit : mm)



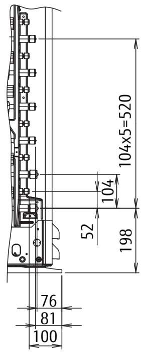
Top view



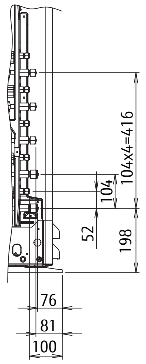
Front view



Side view



6-unit



5-unit

8-unit Multi-split

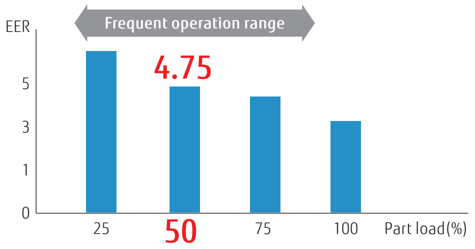
ALL DC

Compact outdoor unit

The compact design outdoor unit allows to be installed below a window and in a narrow space.

High seasonal efficiency

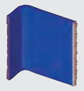
The actual performance is conducted under various outside temperatures depending on weather and seasons, furthermore, especially for multi system, not all the rooms are operated all the time. So over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. Considering these, we focused on energy-saving performance which is based on actual use. Efficiency of part load performance was drastically improved by developing ALL DC and our own inverter system.



Innovated technology

High efficiency large fan:
High efficiency fan is mounted.

DC fan motor:
High performance and high efficiency has been realized by using a small DC fan motor.

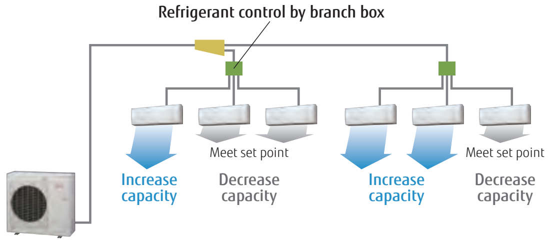


Heat exchanger:
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.

High efficiency DC twin rotary compressor:
A high performance, low noise, large capacity DC twin rotary compressor is used.

Quick comfort by optimized refrigerant control

Every room meets the set point most quickly and comfortably by optimized refrigerant control.



8-unit: AOYG45LBT8

Branch Box: UTP-PY03A / UTP-PY02A

3 zones type

2 zones type

Specifications (Outdoor unit/Branch box)

Outdoor Unit Model Name			AOYG45LBT8
Maximum Connectable Indoor Unit			8
Indoor Unit Connectable Capacity	Cooling	kW	11.2 - 18.2
Power source			Single phase, ~230V, 50Hz
Rated Capacity	Cooling	kW	14.0
	Heating		16.0
Input Power	Cooling	kW	5.20
	Heating		5.07
Airflow rate	Cooling	m^3/h	4,650
	Heating		4,800
Sound Pressure Level	Cooling	dB(A)	56
	Heating		58
Heat Exchanger Fin			Plate fin coil
Net Dimensions H × W × D		mm	914×970×370
Weight		kg(lbs)	98 (216)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88
Max Pipe Length		m	115 (Total)
Max Height Difference (O.U ~ I.U)			30
Operating Range	Cooling	°CDB	-5 to 46
	Heating		-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)
	Charge	kg(CO2eq-T)	3.45 (7.204)

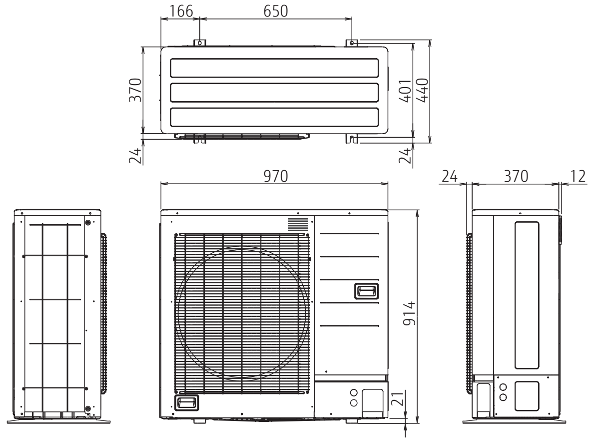
Branch Box Model Name			UTP-PY03A	UTP-PY02A
Connectable Indoor Unit			1 to 3 Units	1 to 2 Units
Power source			Single phase, ~230V, 50Hz	Single phase, ~230V, 50Hz
Available Voltage Range			198-264V	198-264V
Power Consumption		W	10	10
Running Current		A	0.05	0.05
Net Dimensions H × W × D		mm	195×433×370	195×433×370
Weight		kg(lbs)	9 (20)	9 (20)
Connection pipe diameter	Liquid	°CDB	Main: 9.52×1, Branch:6.35×3	Main: 9.52×1, Branch:6.35×2
	Gas		Main: 15.88×1, Branch:12.70×3	Main: 15.88×1, Branch:12.70×2
	Method		Flare	Flare

Note: Specifications are based on the following conditions.
- In case of connecting two indoor units(7 kW class).
- These are the measured values in the manufacturer`s anechoic chamber.
- Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB
  Pipe length: 5 m (Outdoor unit - Branch box), 3 m (Branch box - Indoor unit) Height difference : 0 m

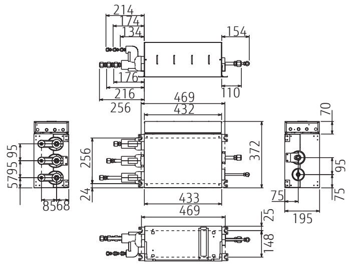
Dimensions

(Unit : mm)

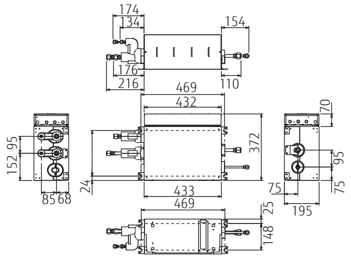
Outdoor Unit:
AOYG45LBT8



Branch Box :
UTP-PY03A (3 zones type)



Branch Box :
UTP-PY02A (2 zones type)



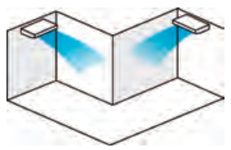
Simultaneous Multi-split

Twin/Triple

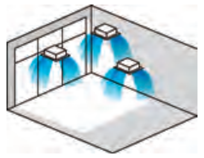
Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions.
Most comfortable air flow distribution can be realized.

Installation according to floor layout



Installation according to lighting conditions

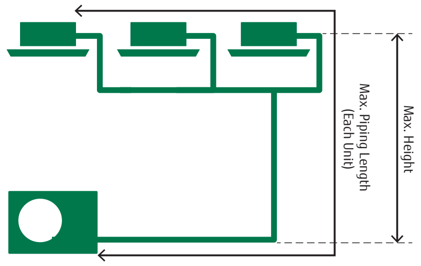


Design flexibility

Slim & Compact design
This model is much more compact than a conventional outdoor unit. Significant reduced height of the product supports installations in narrow spaces.

Flexible installation

Up to max. piping length of 50 m, max. height difference of 30 m can be supported. Multi-split type can be installed in large-size residence or buildings with multiple floors.



Max.
Piping Length
(Each Unit):
50 m
Max. Height:
30 m

New Indoor unit lineup

3 types 6 models indoor units are provided, so you can select them depending on your room size and conditions.

Compact Cassette

Slim Duct

Duct

**Model: AOYG36KBTB / AOYG45KBTB / AOYG54KBTB
AOYG36KRTA [3 phase] / AOYG45KRTA [3 phase] / AOYG54KRTA [3 phase]**

Specifications (Indoor units/Outdoor units)

Indoor Units Model No.				Compact Cassette		
				AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
Power Source				Single phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m^3/h	680/580/490/410	830/740/600/450	930/830/600/450
	Heating	H/M/L/Q		800/680/580/450	860/760/700/530	930/850/700/530
Net Dimension H × W × D			mm	245x570x570	245x570x570	245x570x570
Weight			kg(lbs)	15 (33)	16 (35)	16 (35)
Cassette Grille				UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W

Indoor Units Model No.				Duct		
				ARXG18KLLAP	ARXG22KMLA	ARXG24KMLA
Power Source				Single phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m^3/h	940/880/820/750	1,100/910/750/580	1,100/910/750/580
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580	1,100/910/750/580
Net Dimension H × W × D			mm	198x900x620	270x1,135x700	270x1,135x700
Weight			kg(lbs)	20 (44)	35 (77)	35 (77)

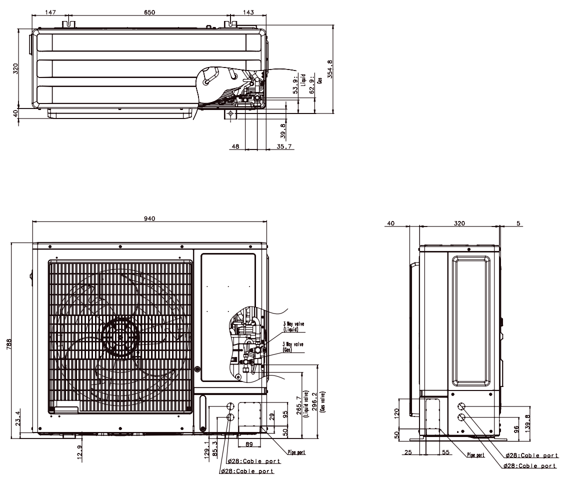
Outdoor Units Model No.			AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Capacity	Cooling	kW	9.5	12.1	13.4	9.5	12.1	13.4
	Heating		10.8	13.5	15.5	10.8	13.5	15.5
Power Source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Pdesign	Cooling	kW	9.5	–	–	9.5	-	-
	Heating (-10°C)		8.7	–	–	8.7	-	-
SEER	Cooling	W/W	6.10	–	–	6.10	-	-
SCOP	Heating		4.00	–	–	4.00	-	-
Annual Energy Consumption	Cooling	kWh/a	545	–	–	545	-	-
	Heating		3,044	–	–	3,044	-	-
Energy Efficiency Class	Cooling		A++	–	–	A++	-	-
	Heating		A+	–	–	A+	-	-
Sound Pressure Level (High)	Cooling	dB(A)	55	57	57	55	57	57
	Heating		55	57	59	55	57	59
Sound Power Level (High)	Cooling		70	71	73	70	71	73
	Heating		70	71	73	70	71	73
Airflow Rate	Cooling / Heating	m^3/h	3,750/3,750	4,450/4,450	4,450/4,450	3,750/3,750	4,450/4,450	4,450/4,450
Net Dimension H × W × D		mm	788x940x320	998x940x320	998x940x320	788x940x320	998x940x320	998x940x320
Weight		kg(lbs)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Max Pipe Length (Pre-Charge)		m	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Height Difference			30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge	kg(CO2eq-T)	1.90(1.283)	2.70(1.823)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.70(1.823)
Separation tube			UTP-SX236A(Twin)	UTP-SX236A(Twin)	UTP-SX236A(Twin) UTP-SX354A(Triple)	UTP-SX236A (Twin)	UTP-SX236A (Twin)	UTP-SX236A(Twin) UTP-SX354A(Triple)

- Different type and capacity indoor units cannot be connected.
- The above table is the value for connecting with cassette type.

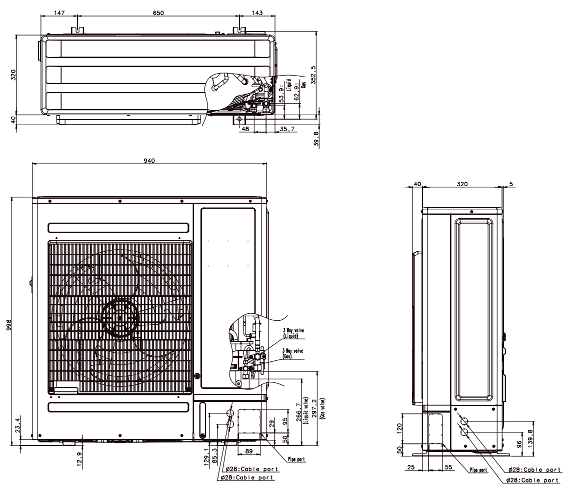
Dimensions

(Unit : mm)

AOYG36KBTB / AOYG36KRTA



**AOYG45KBTB / AOYG54KBTB
AOYG45KRTA / AOYG54KRTA**



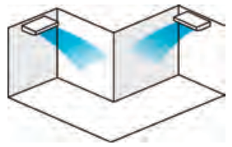
Simultaneous Multi-split

Twin/Triple

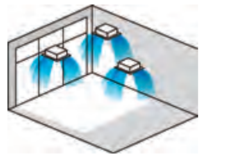
Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions.
Most comfortable air flow distribution can be realized.

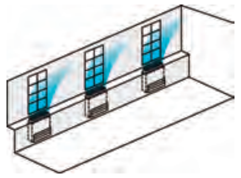
Installation according to floor layout



Installation according to lighting conditions

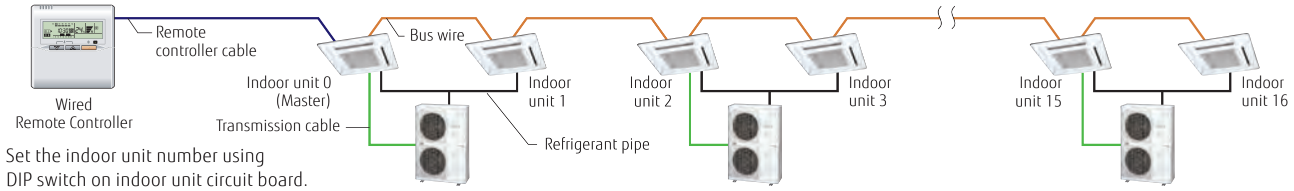


Installation according to layout and lighting conditions



Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.



Set the indoor unit number using DIP switch on indoor unit circuit board.

Indoor unit lineup

4 types 9 models indoor units are provided, so you can select them depending on your room size and conditions.

Compact Cassette

Slim Duct

Duct

Floor/Ceiling Universal

Model : AOYG36LBTB / AOYG45LBTB / AOYG54LBTB
AOYG36LATT [3 phase] / AOYG45LATT [3 phase] / AOYG54LATT [3 phase]

Specifications (Indoor units/Outdoor units)

Indoor Units Model No.				Compact Cassette		
				AUYG18LVLB	AUYG22LVLA	AUYG24LVLA
Power Source				Single phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m^3/h	750/610/520/410	930/830/600/450	930/830/600/450
	Heating	H/M/L/Q		800/710/600/450	930/860/700/530	930/830/600/450
Net Dimension H × W × D			mm	245×570×570	245×570×570	245×570×570
Weight			kg(lbs)	15 (33)	16 (35)	16 (35)
Cassette Grille				UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W

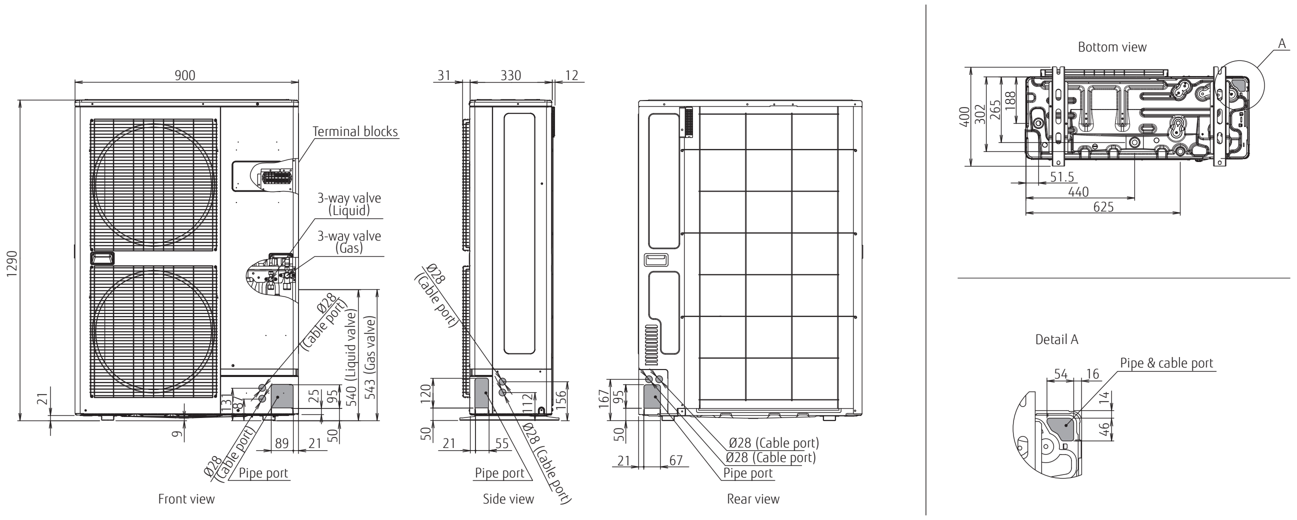
Indoor Units Model No.				Duct			Floor/Ceiling Universal		
				ARYG18LLTB	ARYG22LMLA	ARYG24LMLA	ABYG18LVTB	ABYG22LVTA	ABYG24LVTA
Power Source				Single phase, ~230V, 50Hz			Single phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m^3/h	940/880/820/750	1,100/910/750/580		780/700/560/500	980/820/680/540	
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580		780/700/560/500	980/820/680/540	
Net Dimension H × W × D			mm	198 × 900 × 620	270 × 1,135 × 700		199 × 990 × 655	199 × 990 × 655	
Weight			kg(lbs)	23 (51)	38 (84)		27 (60)	27 (60)	

Outdoor Units Model No.			AOYG36LBTB	AOYG45LBTB	AOYG54LBTB	AOYG36LATT	AOYG45LATT	AOYG54LATT
Capacity	Cooling	kW	10.0	12.1	13.3	10.0	12.5	14.0
	Heating		11.2	14.0	16.0	11.2	14.0	16.0
Power Source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Pdesign	Cooling	kW	10.0	-	-	10.0	-	-
	Heating (-10°C)		10.0	-	-	10.0	-	-
SEER	Cooling	W/W	5.56	-	-	6.00	-	-
SCOP	Heating		3.90	-	-	4.00	-	-
Annual Energy Consumption	Cooling	kWh/a	636	-	-	583	-	-
	Heating		3,588	-	-	3,499	-	-
Energy Efficiency Class	Cooling		A	-	-	A+	-	-
	Heating		A	-	-	A+	-	-
Sound Pressure Level (High)	Cooling/Heating	dB(A)	52/54	54/55	55/57	51/53	54/54	55/56
Sound Power Level (High)	Cooling/Heating		68/69	70/70	71/72	67/69	68/69	70/72
Airflow Rate	Cooling / Heating	m^3/h	6,200/6,200	6,750/6,200	6,850/6,750	6,200/6,200	6,750/6,200	6,900/6,900
Net Dimension H × W × D		mm	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
Weight		kg(lbs)	93(205)	93(205)	93(205)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Max Pipe Length (Pre-Charge)		m	75(30)	75(30)	75(30)	75(30)	75(30)	75(30)
Height Difference			30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)	3.45 (7.204)
Separation tube			UTP-SX236A(Twin)	UTP-SX254A(Twin)	UTP-SX254A(Twin)/ UTP-SX354A(Triple)	UTP-SX236A (Twin)	UTP-SX254A (Twin)	UTP-SX254A (Twin) / UTP-SX354A (Triple)

*Different type and capacity indoor units cannot be connected.
*The above table is the value for connecting with cassette type.

Dimensions

(Unit : mm)

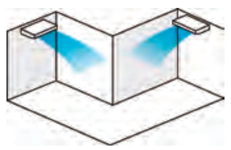


Simultaneous Multi-split
Twin/Triple/Double Twin

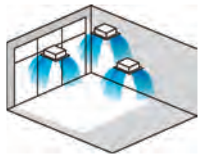
Support various applications from open plan offices to retail stores, with up to 4 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions. Most comfortable air flow distribution can be realized.

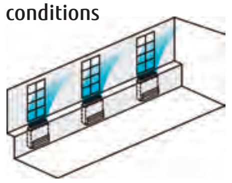
Installation according to floor layout



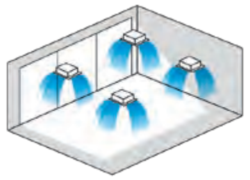
Installation according to lighting conditions



Installation according to layout and lighting conditions

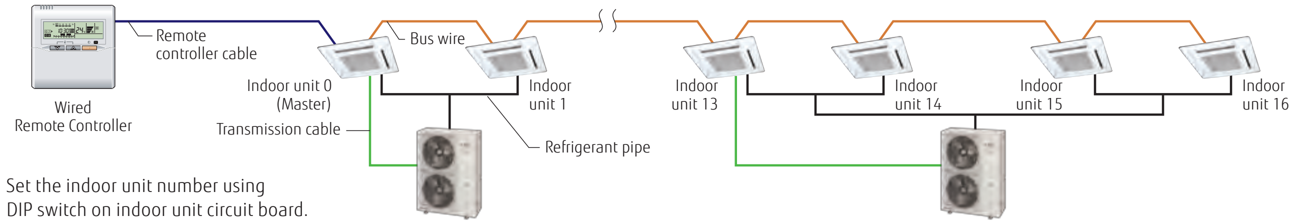


Installation according to large space



Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.



Set the indoor unit number using DIP switch on indoor unit circuit board.

*When using a wireless remote controller, the following functions cannot be used: Timer operation, Sleep Timer operation, 10℃ Heat operation

Indoor unit lineup

6 types 18 models indoor units are provided, so you can select them depending on your room size and conditions.

Compact Cassette

Cassette

Slim Duct

Duct

Floor/Ceiling Universal

Ceiling

Model: AOYG72LRLA [3 phase] / AOYG90LRLA [3 phase]

Specifications (Indoor units/Outdoor units)

Indoor Units Model No.				Compact Cassette, Cassette					
				AUYG18LVLB	AUYG22LVLA	AUYG24LVLA	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA
Power Source				Single phase, ~230V, 50Hz					
Airflow Rate	Cooling	H/M/L/Q	m³/h	750/610/520/410	930/830/600/450	930/830/600/450	1,600/1,400/1,270/1,150	1,800/1,400/1,270/1,150	1,900/1,640/1,460/1,250
	Heating	H/M/L/Q		800/710/600/450	930/860/700/530	930/830/600/450	1,800/1,400/1,270/1,150	1,800/1,400/1,270/1,150	1,900/1,640/1,460/1,250
Net Dimension H × W × D			mm	245×570×570	245×570×570	245×570×570	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight			kg(lbs)	15 (33)	16 (35)	16 (35)	26 (57)	26 (57)	26 (57)
Cassette Grille				UTG-UFYD-W			UTG-UGYA-W		

Indoor Units Model No.				Duct					
				ARYG18LLTB	ARYG22LMLA	ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA
Power Source				Single phase, ~230V, 50Hz					
Airflow Rate	Cooling	H/M/L/Q	m³/h	940/880/820/750	1,100/910/750/580	1,100/910/750/580	1,900/1,620/1,270/980	1,900/1,620/1,270/980	2,100/1,750/1,350/1,070
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580	1,100/910/750/580	2,100/1,620/1,270/980	2,100/1,620/1,270/980	2,100/1,750/1,350/1,070
Net Dimension H × W × D			mm	198 × 900 × 620	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700
Weight			kg(lbs)	23 (51)	38 (84)	38 (84)	40 (88)	40 (88)	40 (88)

Indoor Units Model No.				Floor/Ceiling, Ceiling					
				ABYG18LVTB	ABYG22LVTA	ABYG24LVTA	ABYG30LRTE	ABYG36LRTE	ABYG45LRTA
Power Source				Single phase, ~230V, 50Hz					
Airflow Rate	Cooling	H/M/L/Q	m³/h	780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
	Heating	H/M/L/Q		780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
Net Dimension H × W × D			mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	240 × 1660 × 700	240 × 1660 × 700	240 × 1660 × 700
Weight			kg(lbs)	27 (60)	27 (60)	27 (60)	46 (101)	46 (101)	46 (101)

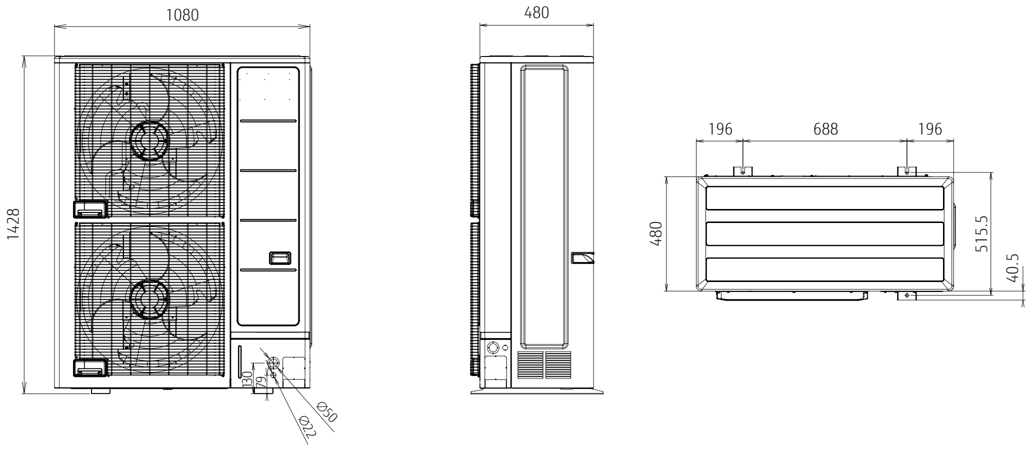
Outdoor Units Model No.			AOYG72LRLA			AOYG90LRLA		
Capacity	Cooling	kW	19.0			22.0		
	Heating		22.4			27.0		
Power Source			3 phase, ~400V, 50Hz					
Sound Pressure Level (High)	Cooling/Heating	dB(A)	55/55			55/57		
Airflow Rate	Cooling / Heating	m³/h	8,400/8,400			8,400/9,000		
Net Dimension H × W × D		mm	1,428×1,080×480			1,428×1,080×480		
Weight		kg(lbs)	163 (359)			172 (379)		
Connection Pipe Diameter (Liquid / Gas)		mm	12.7/25.4			12.7/25.4		
Max Pipe Length (Pre-Charge)		m	100 (30)			100 (30)		
Height Difference			30			30		
Operation Range	Cooling	°CDB	–15 to 46			–15 to 46		
	Heating		–20 to 24			–20 to 24		
Refrigerant	Type (Global Warming Potential)		R410A (2,088)			R410A (2,088)		
	Charge	kg(CO2eq-T)	5.6 (11.693)			7.1 (14.825)		
Separation tube			UTP-SX272A×1 (Twin)	UTP-SX372A×1 (Triple)	UTP-SX272A×1 UTP-236A×2 (Double Twin)	UTP-SX272A×1 (Twin)	UTP-SX372A×1 (Triple)	UTP-SX272A×1 UTP-SX254A×2 (Double Twin)

*: That specification is not fixed yet.

- Different type and capacity indoor units cannot be connected.
- The above table is the value for connecting with cassette type.

Dimensions

(Unit : mm)



New 2-unit Multi-split
Indoor Units Specifications

REFRIGERANT R32

Wall mounted

Model No.	Indoor unit			ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	650/540/430/270	700/560/430/270	700/560/430/270	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions			mm	270x834x215	270x834x215	270x834x215	270x834x215
Weight			kg(lbs)	10 (22)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

Wall mounted

Model No.	Indoor unit			ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	55	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	650/540/430/270	700/560/430/270	700/560/430/270	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions			mm	295×950 (wall side : 840)×230			
Weight			kg(lbs)	11(24)	11(24)	11(24)	11.5(25)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

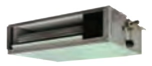
Wall mounted

Model No.	Indoor unit			ASYG07KMCC	ASYG09KMCC	ASYG12KMCC	ASYG14KMCC
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	55	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	650/540/430/320	700/560/430/320	700/560/430/320	770/600/450/310
	Heating			720/580/460/330	750/610/470/330	780/640/520/330	820/660/520/340
Net Dimensions			mm	270x834x222	270x834x222	270x834x222	270x834x222
Weight			kg(lbs)	10 (22)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

Compact cassette Grid type

Model No.	Indoor unit			AUXG07KVLA	AUXG09KVLA	AUXG12KVLA	AUXG14KVLA
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/34/31/28	38/35/32/29
	Heating			34/32/29/27	34/32/29/27	37/34/31/29	43/38/34/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	50
	Heating			47	47	49	55
Airflow Rate	Cooling	H/M/L/Q	m^3/h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	790/680/580/450
Net Dimensions			mm	245x570x570	245x570x570	245x570x570	245x570x570
Weight			kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)
Panel				UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

Mini duct



Model No.	Indoor unit			ARXG07KSLAP	ARXG09KSLAP	ARXG12KSLAP	ARXG14KSLAP
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60
	Heating			53	56	57	62
Airflow Rate	Cooling	H/M/L/Q	m^3/h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360
Net Dimensions			mm	198x700x450	198x700x450	198x700x450	198x700x450
Weight			kg(lbs)	15.5 (34)	15.5 (34)	15.5 (34)	15.5 (34)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
External static pressure			Pa	0 to 30	0 to 30	0 to 30	0 to 50
Drain pump				Standard			

Slim duct

Model No.	Indoor unit			ARXG07KLLAP	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	32/30/28/25
Sound Power Level	Cooling	H	dB(A)	57	57	58	60
	Heating			57	57	58	60
Airflow Rate	Cooling	H/M/L/Q	m^3/h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480
Net Dimensions			mm	198x700x620	198x700x620	198x700x620	198x700x620
Weight			kg(lbs)	16 (35)	17 (37)	17 (37)	17 (37)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
External static pressure			Pa	0 to 90	0 to 90	0 to 90	0 to 90
Drain pump				Standard			

2-unit to 8-unit Multi-split Indoor Units Specifications

Wall mounted

Model No.	Indoor unit			ASYG07KMCC	ASYG09KMCC	ASYG12KMCC	ASYG14KMCC*
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	650/540/430/320	700/560/430/320	700/560/430/320	770/600/450/310
	Heating			720/580/460/330	750/610/470/330	780/640/520/330	820/660/520/340
Net Dimensions			mm	270x834x222	270x834x222	270x834x222	270x834x222
Weight			kg(lbs)	10 (22)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70

* When connecting 14 model to multi-split type outdoor unit for R410A refrigerant, Adapter H is required for its piping.

Compact wall mounted

Model No.	Indoor unit			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	35/30/28/21	36/32/28/21	37/34/31/21	41/36/33/25
	Heating			35/30/28/21	36/32/28/21	37/34/31/21	41/36/34/27
Sound Power Level	Cooling	H	dB(A)	53	54	55	59
	Heating			53	54	55	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	570/520/470/330	600/550/470/330	660/600/530/330	710/640/570/390
	Heating			570/520/470/330	600/550/470/330	660/600/530/330	710/640/590/430
Net Dimensions			mm	282×870×185	282×870×185	282×870×185	282×870×185
Weight			kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70

Wall mounted

Model No.	Indoor unit			ASYG18LFCA	ASYG24LFCC
kW Class			kW	5.0	7.0
Power Source				Single phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	43/37/33/26	49/42/37/33
	Heating			42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	dB(A)	58	64
	Heating			58	64
Airflow Rate	Cooling	H/M/L/Q	m^3/h	900/740/620/550	1,120/900/740/620
	Heating			900/740/620/550	1,100/900/740/620
Net Dimensions			mm	320×998×238	320×998×238
Weight			kg(lbs)	14 (31)	14 (31)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/12.70	6.35/15.88

Compact wall mounted

Model No.	Indoor unit			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
kW Class			kW	2.0	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/32/29/21	37/33/29/21	40/36/30/21	42/38/33/25
	Heating			36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27
Sound Power Level	Cooling	H	dB(A)	51	52	54	56
	Heating			51	52	55	57
Airflow Rate	Cooling	H/M/L/Q	m^3/h	560/500/430/310	600/520/430/310	660/560/450/310	730/600/530/360
	Heating			560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375
Net Dimensions			mm	270×870×204	270×870×204	270×870×204	270×870×204
Weight			kg(lbs)	8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70

Floor

Model No.	Indoor unit			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
kW Class			kW	2.5	3.5	4.0
Power Source				Single phase, ~230V, 50Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22
	Heating			39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	dB(A)	52	55	56
	Heating			52	55	56
Airflow Rate	Cooling	H/M/L/Q	m^3/h	530/440/360/270	600/490/380/270	650/520/400/270
	Heating			530/460/380/270	600/510/410/270	650/540/430/270
Net Dimensions			mm	600×740×200	600×740×200	600×740×200
Weight			kg(lbs)	14 (31)	14 (31)	14 (31)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.70

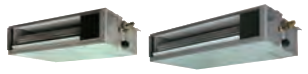
Floor ceiling

Model No.	Indoor unit			ABYG14LVTA	ABYG18LVTB
kW Class			kW	4.0	5.0
Power Source				Single phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
Sound Power Level	Cooling	H	dB(A)	51	55
	Heating			51	55
Airflow Rate	Cooling	H/M/L/Q	m^3/h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions			mm	199×990×655	199×990×655
Weight			kg(lbs)	27 (60)	27 (60)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/12.70	6.35/12.70

Compact cassette

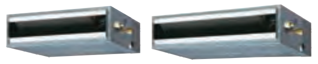
Model No.	Indoor unit			AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB
kW Class			kW	2.0	2.5	3.5	4.0	5.0
Power Source				Single phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/33/31/28	40/35/32/29	42/37/33/29
	Heating			34/32/29/27	34/32/29/27	37/33/31/28	40/37/34/29	44/40/37/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	52	54
	Heating			47	47	49	52	56
Airflow Rate	Cooling	H/M/L/Q	m^3/h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	750/610/520/410
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	700/620/550/430	800/710/600/450
Net Dimensions			mm	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570
Weight			kg(lbs)	15(33)	15 (33)	15 (33)	15 (33)	15 (33)
Panel				UTG-UFYD-W				
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70

Mini duct



Model No.	Indoor unit			ARYG07LSLAP	ARYG09LSLAP	ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
kW Class			kW	2.0	2.5	3.5	4.0	5.0
Power Source				Single phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60	58
	Heating			53	56	57	62	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
Net Dimensions			mm	198×700×450	198×700×450	198×700×450	198×700×450	198×900×450
Weight			kg(lbs)	15.5 (33)				18.5 (41)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52			6.35/12.70	
External static pressure			Pa	0 to 30			0 to 50	
Drain pump				Standard				

Slim duct



Model No.	Indoor unit			ARYG07LLTA	ARYG09LLTA	ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
kW Class			kW	2.0	2.5	3.5	4.0	5.0
Power Source				Single phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/31/30/29
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	33/30/28/25	33/32/31/29
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58
	Heating			57	57	58	61	59
Airflow Rate	Cooling	H/M/L/Q	m^3/h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
Net Dimensions			mm	198×700×620	198×700×620	198×700×620	198×700×620	198×900×620
Weight			kg(lbs)	17 (37)	19 (42)	19 (42)	19 (42)	23 (51)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.70
External static pressure			Pa	0 to 90				
Drain pump				Standard				

2-unit Multi-split Combination Table–Cooling/Heating

REFRIGERANT R32

2-unit Multi-split cooling

AOYG14KBTA2	Combination of Indoor Unit		Cooling Operation							
			Cooling Capacity			Input Power (min-max)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.00	2.00	4.00(1.4-4.6)	0.97(0.25 - 1.20)	4.12	4.0	8.7	A+++
	7	9	1.75	2.25	4.00(1.4-4.6)	0.97(0.25 - 1.20)	4.12	4.0	8.7	A+++
	7	12	1.47	2.53	4.00(1.4-4.6)	0.97(0.25 - 1.20)	4.12	4.0	8.7	A+++
	9	9	2.00	2.00	4.00(1.4-4.6)	0.97(0.25 - 1.20)	4.12	4.0	8.7	A+++
	9	12	1.71	2.29	4.00(1.4-4.6)	0.97(0.25 - 1.20)	4.12	4.0	8.7	A+++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
- The above is the value for connecting with Wall Mounted [KG] type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

AOYG18KBTA2	Combination of Indoor Unit		Cooling Operation							
			Cooling Capacity			Input Power (min-max)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.00	2.00	4.00(1.7-5.0)	0.92(0.25 - 1.23)	4.35	4.0	8.8	A+++
	7	9	2.00	2.50	4.50(1.7-5.7)	1.07(0.25- 1.45)	4.22	4.5	8.7	A+++
	7	12	1.84	3.16	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	7	14	1.67	3.33	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	9	9	2.50	2.50	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	9	12	2.14	2.86	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	9	14	1.96	3.04	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	12	12	2.50	2.50	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++
	12	14	2.31	2.69	5.00(1.7-5.8)	1.24(0.25 - 1.55)	4.03	5.0	8.6	A+++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
- The above is the value for connecting with Wall Mounted [KG] type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 26000Btu from 14000Btu.

2-unit Multi-split heating

AOYG14KBTA2	Combination of Indoor Unit		Heating Operation							
			Heating Capacity			Input Power (min-max)	COP	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.20	2.20	4.40(1.1-5.5)	0.95(0.25 - 1.65)	4.63	3.5	4.7	A++
	7	9	1.92	2.48	4.40(1.1-5.5)	0.95(0.25 - 1.65)	4.63	3.5	4.7	A++
	7	12	1.62	2.78	4.40(1.1-5.5)	0.95(0.25 - 1.65)	4.63	3.5	4.7	A++
	9	9	2.20	2.20	4.40(1.1-5.5)	0.95(0.25 - 1.65)	4.63	3.5	4.7	A++
	9	12	1.89	2.51	4.40(1.1-5.5)	0.95(0.25 - 1.65)	4.63	3.5	4.7	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
- The above is the value for connecting with Wall Mounted [KG] type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

AOYG18KBTA2	Combination of Indoor Unit		Heating Operation							
			Heating Capacity			Input Power (min-max)	COP	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.40	2.40	4.80(1.7-5.6)	0.99(0.25 - 1.35)	4.85	3.8	4.7	A++
	7	9	2.40	3.00	5.40(1.7-6.4)	1.15(0.25 - 1.60)	4.70	4.0	4.7	A++
	7	12	2.06	3.54	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	7	14	1.87	3.73	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	9	9	2.80	2.80	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	9	12	2.40	3.20	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	9	14	2.19	3.41	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	12	12	2.80	2.80	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++
	12	14	2.58	3.02	5.60(1.7-7.0)	1.22(0.25 - 1.80)	4.59	4.2	4.7	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
- The above is the value for connecting with Wall Mounted [KG] type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 26000Btu from 14000Btu.

REFRIGERANT R410A

2-unit Multi-split cooling

AOYG14LAC2	Combination of Indoor Unit		Cooling Operation							
			Cooling Capacity			Input Power (min-max)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.00	2.00	4.00 (1.4 - 4.4)	1.09 (0.35 - 1.40)	3.67	4.0	6.7	A++
	7	9	1.95	2.05	4.00 (1.4 - 4.4)	1.09 (0.35 - 1.40)	3.67	4.0	6.6	A++
	7	12	1.65	2.35	4.00 (1.4 - 4.6)	1.05 (0.35 - 1.47)	3.81	4.0	6.5	A++
	9	9	2.00	2.00	4.00 (1.4 - 4.5)	1.09 (0.35 - 1.43)	3.67	4.0	6.6	A++
	9	12	1.70	2.30	4.00 (1.4 - 4.7)	1.05 (0.35 - 1.47)	3.81	4.0	6.5	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

AOYG18LAC2	Combination of Indoor Unit		Cooling Operation							
			Cooling Capacity			Input Power (min-max)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.10	2.10	4.20 (1.7 - 5.2)	1.24 (0.35 - 1.68)	3.39	4.2	7.0	A++
	7	9	2.10	2.50	4.60 (1.7 - 5.3)	1.26 (0.35 - 1.79)	3.65	4.6	6.8	A++
	7	12	1.90	3.10	5.00 (1.7 - 5.6)	1.55 (0.35 - 1.95)	3.23	5.0	6.5	A++
	7	14	1.80	3.20	5.00 (1.8 - 5.7)	1.55 (0.40 - 1.99)	3.23	5.0	6.5	A++
	9	9	2.50	2.50	5.00 (1.7 - 5.6)	1.56 (0.35 - 1.95)	3.21	5.0	6.6	A++
	9	12	2.10	2.90	5.00 (1.7 - 5.7)	1.55 (0.35 - 1.95)	3.23	5.0	6.5	A++
	9	14	2.00	3.00	5.00 (1.8 - 5.8)	1.55 (0.40 - 1.99)	3.23	5.0	6.4	A++
	12	12	2.50	2.50	5.00 (1.7 - 5.8)	1.56 (0.35 - 1.99)	3.21	5.0	6.4	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 24000Btu from 14000Btu.
- Where "14" means "wall mounted type" only models. Other types of indoor units cannot be connected.

2-unit Multi-split heating

AOYG14LAC2	Combination of Indoor Unit		Heating Operation							
			Heating Capacity			Input Power (min-max)	COP	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	9	2.15	2.25	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	12	1.95	2.45	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	4.31	3.8	4.0	A+
	9	9	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.0	A+
	9	12	2.00	2.40	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	4.31	3.8	4.0	A+

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

AOYG18LAC2	Combination of Indoor Unit		Heating Operation							
			Heating Capacity			Input Power (min-max)	COP	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency class
			kW	kW	kW	kW		kW		
2-unit connection	7	7	2.70	2.70	5.40 (1.8 - 6.0)	1.24 (0.50 - 1.61)	4.37	3.8	4.1	A+
	7	9	2.50	3.00	5.50 (1.8 - 6.0)	1.36 (0.50 - 1.87)	4.04	4.0	4.1	A+
	7	12	2.30	3.30	5.60 (1.8 - 6.1)	1.38 (0.50 - 1.88)	4.06	4.2	4.0	A+
	7	14	2.25	3.35	5.60 (1.9 - 6.2)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	9	9	2.80	2.80	5.60 (1.8 - 6.1)	1.41 (0.50 - 1.90)	3.97	4.2	4.1	A+
	9	12	2.45	3.15	5.60 (1.8 - 6.2)	1.38 (0.50 - 1.88)	4.07	4.2	4.0	A+
	9	14	2.35	3.25	5.60 (1.9 - 6.3)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	12	12	2.80	2.80	5.60 (1.8 - 6.3)	1.34 (0.50 - 1.84)	4.18	4.2	4.0	A+

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 24000Btu from 14000Btu.
- Where "14" means "wall mounted type" only models. Other types of indoor units cannot be connected.

3-unit Multi-split Combination Table-Cooling/Heating

3-unit Multi-split cooling

AOYG18LAT3	Combination of Indoor Unit			Cooling Operation								
				Cooling Capacity				Input Power (min-max)	EER	Seasonal Data		
				Unit 1	Unit 2	Unit 3	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency
				kW	kW	kW	kW	kW		kW		
2-unit connection	7	7	-	2.30	2.30	-	4.60 (1.8 - 5.0)	1.22 (0.50 - 1.43)	3.77	4.6	6.3	A++
	7	9	-	2.30	2.70	-	5.00 (1.8 - 5.7)	1.35 (0.50 - 1.81)	3.70	5.0	6.2	A++
	7	12	-	1.98	3.02	-	5.00 (1.8 - 6.1)	1.34 (0.50 - 2.06)	3.73	5.0	6.2	A++
	7	14	-	1.88	3.42	-	5.30 (1.8 - 6.6)	1.34 (0.50 - 2.06)	3.96	5.3	6.1	A++
	9	9	-	2.50	2.50	-	5.00 (1.8 - 6.2)	1.35 (0.50 - 2.06)	3.70	5.0	6.2	A++
	9	12	-	2.18	2.82	-	5.00 (1.8 - 6.3)	1.35 (0.50 - 2.06)	3.70	5.0	6.2	A++
	9	14	-	2.07	3.23	-	5.30 (1.8 - 6.7)	1.35 (0.50 - 2.06)	3.93	5.3	6.1	A++
	12	12	-	2.55	2.55	-	5.10 (1.8 - 6.3)	1.35 (0.50 - 2.06)	3.78	5.1	6.1	A++
	12	14	-	2.41	2.89	-	5.30 (1.8 - 6.7)	1.35 (0.50 - 2.06)	3.93	5.3	6.1	A++
3-unit connection	7	7	7	1.80	1.80	1.80	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.9	A++
	7	7	9	1.70	1.70	2.00	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.9	A++
	7	7	12	1.53	1.53	2.33	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.7	A++
	7	7	14	1.41	1.41	2.58	5.40 (2.0 - 6.8)	1.35 (0.60 - 2.06)	4.00	5.4	6.7	A++
	7	9	9	1.61	1.89	1.89	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.8	A++
	7	9	12	1.46	1.72	2.22	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.7	A++
	7	9	14	1.35	1.58	2.47	5.40 (2.0 - 6.8)	1.35 (0.60 - 2.06)	4.00	5.4	6.7	A++
	9	9	9	1.80	1.80	1.80	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.8	A++
	9	9	12	1.64	1.64	2.12	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.7	A++

AOYG24LAT3	Combination of Indoor Unit			Cooling Operation								
				Cooling Capacity				Input Power (min-max)	EER	Seasonal Data		
				Unit 1	Unit 2	Unit 3	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency
				kW	kW	kW	kW	kW		kW		
2-unit connection	7	7	-	2.30	2.30	-	4.60 (1.8 - 5.0)	1.20 (0.50 - 1.40)	3.83	4.6	6.3	A++
	7	9	-	2.30	2.70	-	5.00 (1.8 - 5.7)	1.36 (0.50 - 1.78)	3.68	5.0	6.2	A++
	7	12	-	2.38	3.42	-	5.80 (1.8 - 6.1)	1.70 (0.50 - 1.97)	3.41	5.8	6.1	A++
	7	14	-	2.37	4.13	-	6.50 (1.8 - 7.2)	1.91 (0.50 - 2.46)	3.40	6.5	6.0	A+
	7	18	-	2.08	4.52	-	6.60 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.46	6.6	5.9	A+
	9	9	-	2.75	2.75	-	5.50 (1.8 - 6.2)	1.55 (0.50 - 2.02)	3.55	5.5	6.1	A++
	9	12	-	2.79	3.41	-	6.20 (1.8 - 6.8)	1.90 (0.50 - 2.45)	3.26	6.2	5.9	A+
	9	14	-	2.66	3.94	-	6.60 (1.8 - 7.7)	1.91 (0.50 - 2.77)	3.46	6.6	6.0	A+
	9	18	-	2.35	4.35	-	6.70 (1.8 - 7.9)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+
	12	12	-	3.15	3.15	-	6.30 (1.8 - 7.2)	1.90 (0.50 - 2.74)	3.32	6.3	5.9	A+
	12	14	-	3.03	3.67	-	6.70 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+
	12	18	-	2.66	4.04	-	6.70 (1.8 - 7.9)	1.92 (0.50 - 2.87)	3.49	6.7	5.8	A+
3-unit connection	7	7	7	2.23	2.23	2.23	6.70 (1.8 - 7.4)	1.89 (0.50 - 2.37)	3.54	6.7	6.4	A++
	7	7	9	2.14	2.14	2.52	6.80 (1.8 - 7.8)	1.94 (0.60 - 2.87)	3.51	6.8	6.4	A++
	7	7	12	1.98	1.98	2.84	6.80 (1.8 - 8.1)	1.93 (0.50 - 2.87)	3.52	6.8	6.3	A++
	7	7	14	1.82	1.82	3.16	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	7	7	18	1.63	1.63	3.54	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	7	9	9	2.03	2.38	2.38	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.4	A++
	7	9	12	1.88	2.21	2.70	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.2	A++
	7	9	14	1.74	2.04	3.02	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	7	9	18	1.56	1.84	3.40	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	7	12	12	1.76	2.52	2.52	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	7	12	14	1.63	2.34	2.83	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	9	9	9	2.27	2.27	2.27	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.4	A++
	9	9	12	2.11	2.11	2.58	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	9	9	14	1.95	1.95	2.89	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	9	9	18*[1]	1.77	1.77	3.27	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	9	12	12	1.97	2.41	2.41	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	9	12	14	1.84	2.24	2.72	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	12	12	12	2.27	2.27	2.27	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.1	A++

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •2 or more indoor units should be connected.
- •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The total ability of connectable indoor units is up to 36000Btu from 14000Btu.

*1: When ASYG18L is connected, connect at least 1 wall mounted type of 9000Btu.

3-unit Multi-split heating

AOYG18LAT3	Combination of Indoor Unit			Heating Operation								
				Heating Capacity				Input Power (min-max)	COP	Seasonal Data		
				Unit 1	Unit 2	Unit 3	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency
				kW	kW	kW	kW	kW		kW		
2-unit connection	7	7	-	2.70	2.70	-	5.40 (2.0 - 6.1)	1.59 (0.52 - 1.93)	3.40	4.0	4.1	A+
	7	9	-	2.75	3.25	-	6.00 (2.0 - 6.4)	1.87 (0.52 - 2.06)	3.21	4.0	4.1	A+
	7	12	-	2.59	3.71	-	6.30 (2.0 - 6.5)	1.98 (0.52 - 2.06)	3.18	4.0	4.1	A+
	7	14	-	2.51	4.29	-	6.80 (2.0 - 7.1)	1.92 (0.50 - 2.06)	3.54	4.0	4.1	A+
	9	9	-	3.15	3.15	-	6.30 (2.0 - 6.5)	1.98 (0.52 - 2.06)	3.18	4.0	4.1	A+
	9	12	-	2.89	3.51	-	6.40 (2.0 - 6.6)	1.99 (0.52 - 2.06)	3.22	4.0	4.1	A+
	9	14	-	2.77	4.03	-	6.80 (2.0 - 7.2)	1.91 (0.50 - 2.06)	3.56	4.0	4.1	A+
	12	12	-	3.20	3.20	-	6.40 (2.0 - 6.6)	1.98 (0.52 - 2.06)	3.23	4.0	4.1	A+
	12	14	-	3.09	3.71	-	6.80 (2.0 - 7.3)	1.90 (0.50 - 2.06)	3.58	4.0	4.1	A+
3-unit connection	7	7	7	2.27	2.27	2.27	6.80 (2.0 - 7.7)	1.62 (0.50 - 2.06)	4.20	5.0	4.3	A+
	7	7	9	2.14	2.14	2.52	6.80 (2.0 - 7.8)	1.62 (0.50 - 2.06)	4.20	5.0	4.3	A+
	7	7	12	1.98	1.98	2.83	6.80 (2.0 - 7.8)	1.59 (0.50 - 2.06)	4.28	5.0	4.3	A+
	7	7	14	1.83	1.83	3.14	6.80 (2.0 - 8.0)	1.61 (0.50 - 2.06)	4.22	5.0	4.3	A+
	7	9	9	2.03	2.39	2.39	6.80 (2.0 - 7.8)	1.60 (0.50 - 2.06)	4.25	5.0	4.3	A+
	7	9	12	1.89	2.22	2.69	6.80 (2.0 - 7.9)	1.59 (0.50 - 2.06)	4.28	5.0	4.3	A+
	7	9	14	1.75	2.06	2.99	6.80 (2.0 - 8.0)	1.60 (0.50 - 2.06)	4.25	5.0	4.3	A+
	9	9	9	2.27	2.27	2.27	6.80 (2.0 - 7.9)	1.59 (0.50 - 2.06)	4.28	5.0	4.3	A+
	9	9	12	2.12	2.12	2.57	6.80 (2.0 - 7.9)	1.59 (0.50 - 2.06)	4.28	5.0	4.3	A+

AOYG24LAT3	Combination of Indoor Unit			Heating Operation								
				Heating Capacity				Input Power (min-max)	COP	Seasonal Data		
				Unit 1	Unit 2	Unit 3	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency
				kW	kW	kW	kW	kW		kW		
2-unit connection	7	7	-	2.75	2.75	-	5.50 (2.0 - 6.1)	1.55 (0.52 - 1.93)	3.55	4.0	4.1	A+
	7	9	-	2.80	3.30	-	6.10 (2.0 - 7.0)	1.82 (0.52 - 2.52)	3.35	4.0	4.1	A+
	7	12	-	2.88	4.12	-	7.00 (2.0 - 7.3)	2.31 (0.52 - 2.66)	3.03	4.0	4.1	A+
	7	14	-	2.80	4.80	-	7.60 (2.0 - 8.3)	2.28 (0.50 - 2.87)	3.33	4.0	4.1	A+
	7	18	-	2.51	5.39	-	7.90 (2.0 - 8.3)	2.34 (0.50 - 2.87)	3.38	4.0	4.1	A+
	9	9	-	3.30	3.30	-	6.60 (2.0 - 7.4)	2.04 (0.52 - 2.68)	3.24	4.0	4.1	A+
	9	12	-	3.30	4.00	-	7.30 (2.0 - 7.7)	2.43 (0.52 - 2.87)	3.00	4.0	4.1	A+
	9	14	-	3.22	4.68	-	7.90 (2.0 - 8.3)	2.38 (0.50 - 2.87)	3.32	4.0	4.1	A+
	9	18	-	2.84	5.16	-	8.00 (2.0 - 8.5)	2.32 (0.50 - 2.87)	3.45	4.0	4.1	A+
	12	12	-	3.80	3.80	-	7.60 (2.0 - 7.8)	2.54 (0.52 - 2.87)	2.99	4.0	4.1	A+
	12	14	-	3.59	4.31	-	7.90 (2.0 - 8.4)	2.37 (0.50 - 2.87)	3.33	4.0	4.1	A+
	12	18	-	3.20	4.80	-	8.00 (2.0 - 8.6)	2.31 (0.50 - 2.87)	3.46	4.0	4.1	A+
3-unit connection	7	7	7	2.60	2.60	2.60	7.80 (2.0 - 8.6)	1.94 (0.50 - 2.68)	4.02	5.0	4.3	A+
	7	7	9	2.52	2.52	2.96	8.00 (2.0 - 8.8)	2.00(0.50 - 2.87)	4.00	5.2	4.2	A+
	7	7	12	2.34	2.34	3.32	8.00 (2.0 - 8.9)	1.99 (0.50 - 2.80)	4.02	5.2	4.2	A+
	7	7	14	2.16	2.16	3.68	8.00 (2.0 - 9.2)	1.91 (0.50 - 2.72)	4.19	5.2	4.2	A+
	7	7	18	1.94	1.94	4.12	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.70)	4.23	5.2	4.2	A+
	7	9	9	2.38	2.81	2.81	8.00(2.0 - 9.0)	1.99 (0.50 - 2.87)	4.02	5.2	4.2	A+
	7	9	12	2.23	2.62	3.15	8.00 (2.0 - 9.1)	1.98 (0.50 - 2.87)	4.04	5.2	4.2	A+
	7	9	14	2.06	2.42	3.52	8.00 (2.0 - 9.2)	1.91 (0.50 - 2.72)	4.19	5.2	4.2	A+
	7	9	18	1.85	2.18	3.97	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.69)	4.23	5.2	4.2	A+
	7	12	12	2.08	2.96	2.96	8.00 (2.0 - 9.1)	1.97 (0.50 - 2.87)	4.06	5.2	4.2	A+
	7	12	14	1.93	2.76	3.31	8.00 (2.0 - 9.2)	1.90 (0.50 - 2.70)	4.21	5.2	4.2	A+
	9	9	9	2.67	2.67	2.67	8.00 (2.0 - 9.1)	1.98 (0.50 - 2.87)	4.04	5.2	4.2	A+
	9	9	12	2.49	2.49	3.02	8.00 (2.0 - 9.2)	1.97 (0.50 - 2.87)	4.06	5.2	4.2	A+
	9	9	14	2.32	2.32	3.37	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.70)	4.23	5.2	4.2	A+
	9	9	18*[1]	2.10	2.10	3.81	8.00 (2.0 - 9.2)	1.87 (0.50 - 2.68)	4.28	5.2	4.2	A+
	9	12	12	2.34	2.83	2.83	8.00 (2.0 - 9.2)	1.96 (0.50 - 2.80)	4.08	5.2	4.2	A+
	9	12	14	2.18	2.64	3.17	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.69)	4.23	5.2	4.2	A+
	12	12	12	2.67	2.67	2.67	8.00 (2.0 - 9.2)	1.95 (0.50 - 2.78)	4.10	5.2	4.2	A+

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •2 or more indoor units should be connected.
- •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 36000Btu from 14000Btu.

*1: When ASYG18L is connected, connect at least 1 wall mounted type for 9000Btu.

4-unit Multi-split Combination Table-Cooling/Heating

4-unit Multi-split cooling

AOYG30LAT4	Combination of Indoor Unit				Cooling Operation									
					Cooling Capacity					Input Power (min-max)	EER	Seasonal Data		
					Unit 1	Unit 2	Unit 3	Unit 4	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency
					kW	kW	kW	kW	kW	kW		kW		
3-unit connection	7	7	14	-	1.96	1.96	3.27	-	7.20 (1.6 - 8.9)	2.22 (0.68 - 3.43)	3.24	7.2	5.9	A+
	7	7	18	-	1.81	1.81	4.08	-	7.70 (2.8 - 10.0)	2.22 (0.98 - 3.55)	3.47	7.7	5.8	A+
	7	7	24	-	1.61	1.61	4.57	-	7.80 (2.8 - 10.1)	2.19 (0.98 - 3.53)	3.56	7.8	5.8	A+
	7	9	12	-	2.08	2.34	2.78	-	7.20 (1.6 - 8.9)	2.22 (0.68 - 3.41)	3.24	7.2	5.9	A+
	7	9	14	-	1.90	2.14	3.16	-	7.20 (2.8 - 9.1)	2.22 (0.98 - 3.56)	3.24	7.2	5.9	A+
	7	9	18	-	1.76	1.98	3.96	-	7.70 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.47	7.7	5.8	A+
	7	9	24	-	1.57	1.77	4.46	-	7.80 (2.8 - 10.1)	2.19 (0.98 - 3.53)	3.56	7.8	5.8	A+
	7	12	12	-	1.96	2.62	2.62	-	7.20 (1.6 - 9.1)	2.22 (0.68 - 3.54)	3.24	7.2	5.9	A+
	7	12	14	-	1.83	2.43	3.04	-	7.30 (2.8 - 9.2)	2.22 (0.98 - 3.56)	3.29	7.3	5.9	A+
	7	12	18	-	1.68	2.24	3.78	-	7.70 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.47	7.7	5.8	A+
	7	12	24	-	1.51	2.01	4.28	-	7.80 (2.8 - 10.1)	2.19 (0.98 - 3.56)	3.56	7.8	5.8	A+
	7	14	14	-	1.68	2.81	2.81	-	7.30 (2.8 - 9.3)	2.22 (0.98 - 3.58)	3.29	7.3	5.9	A+
	7	14	18	-	1.57	2.61	3.52	-	7.70 (3.5 - 10.0)	2.22 (1.17 - 3.58)	3.47	7.7	5.8	A+
	7	14	24	-	1.44	2.39	4.07	-	7.90 (3.5 - 10.1)	2.20 (1.17 - 3.58)	3.59	7.9	5.8	A+
	7	18	18	-	1.42	3.19	3.19	-	7.80 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.51	7.8	5.7	A+
	7	18	24	-	1.30	2.92	3.68	-	7.90 (4.7 - 10.1)	2.22 (1.27 - 3.58)	3.56	7.9	5.7	A+
	9	9	9	-	2.40	2.40	2.40	-	7.20 (2.8 - 8.9)	2.22 (0.98 - 3.42)	3.24	7.2	5.9	A+
	9	9	12	-	2.26	2.26	2.68	-	7.20 (2.8 - 9.1)	2.22 (0.98 - 3.54)	3.24	7.2	5.9	A+
	9	9	14	-	2.10	2.10	3.11	-	7.30 (2.8 - 9.2)	2.22 (0.98 - 3.57)	3.29	7.3	5.9	A+
	9	9	18	-	1.93	1.93	3.85	-	7.70 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.47	7.7	5.8	A+
	9	9	24	-	1.73	1.73	4.35	-	7.80 (2.8 - 10.1)	2.20 (1.17 - 3.54)	3.55	7.8	5.8	A+
	9	12	12	-	2.14	2.53	2.53	-	7.20 (2.8 - 9.1)	2.22 (0.98 - 3.54)	3.24	7.2	5.9	A+
	9	12	14	-	1.99	2.36	2.95	-	7.30 (2.8 - 9.2)	2.22 (0.98 - 3.57)	3.29	7.3	5.9	A+
	9	12	18	-	1.84	2.18	3.68	-	7.70 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.47	7.7	5.8	A+
	9	12	24	-	1.66	1.97	4.18	-	7.80 (2.8 - 10.1)	2.19 (0.98 - 3.56)	3.56	7.8	5.8	A+
	9	14	14	-	1.84	2.73	2.73	-	7.30 (3.5 - 9.3)	2.22 (1.17 - 3.58)	3.29	7.3	5.9	A+
	9	14	18	-	1.74	2.58	3.48	-	7.80 (3.5 - 10.0)	2.22 (1.17 - 3.58)	3.51	7.8	5.8	A+
	9	14	24	-	1.58	2.34	3.98	-	7.90 (3.5 - 10.1)	2.22 (1.27 - 3.56)	3.56	7.9	5.8	A+
	9	18	18	-	1.56	3.12	3.12	-	7.80 (4.7 - 10.1)	2.22 (1.27 - 3.58)	3.51	7.8	5.7	A+
	12	12	12	-	2.43	2.43	2.43	-	7.30 (2.8 - 9.2)	2.22 (0.98 - 3.55)	3.29	7.3	5.9	A+
	12	12	14	-	2.28	2.28	2.85	-	7.40 (2.8 - 9.3)	2.22 (0.98 - 3.58)	3.33	7.4	5.9	A+
	12	12	18	-	2.12	2.12	3.57	-	7.80 (3.5 - 10.0)	2.22 (1.17 - 3.57)	3.51	7.8	5.8	A+
	12	12	24	-	1.92	1.92	4.07	-	7.90 (3.5 - 10.1)	2.20 (1.17 - 3.54)	3.59	7.9	5.8	A+
	12	14	14	-	2.11	2.64	2.64	-	7.40 (3.5 - 9.4)	2.22 (1.17 - 3.58)	3.33	7.4	5.9	A+
	12	14	18	-	1.98	2.48	3.34	-	7.80 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.51	7.8	5.8	A+
	12	18	18	-	1.81	3.05	3.05	-	7.90 (4.7 - 10.1)	2.22 (1.27 - 3.58)	3.56	7.9	5.7	A+
4-unit connection	7	7	7	7	1.93	1.93	1.93	1.93	7.70 (1.6 - 9.6)	2.20 (0.68 - 3.41)	3.50	7.7	6.2	A++
	7	7	7	9	1.89	1.89	1.89	2.13	7.80 (1.6 - 9.8)	2.22 (0.68 - 3.54)	3.51	7.8	6.2	A++
	7	7	7	12	1.83	1.83	1.83	2.41	7.90 (1.6 - 9.9)	2.22 (0.68 - 3.54)	3.56	7.9	6.1	A++
	7	7	7	14	1.70	1.70	1.70	2.80	7.90 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.56	7.9	6.1	A++
	7	7	7	18	1.52	1.52	1.52	3.43	8.00 (2.8 - 10.1)	2.20 (0.98 - 3.55)	3.64	8.0	6.0	A+
	7	7	9	9	1.86	1.86	2.09	2.09	7.90 (2.8 - 9.7)	2.22 (0.98 - 3.42)	3.56	7.9	6.2	A++
	7	7	9	12	1.78	1.78	1.99	2.35	7.90 (2.8 - 9.9)	2.22 (0.98 - 3.55)	3.56	7.9	6.1	A++
	7	7	9	14	1.68	1.68	1.88	2.76	8.00 (2.8 - 10.0)	2.22 (0.98 - 3.57)	3.60	8.0	6.1	A++
	7	7	9	18	1.49	1.49	1.67	3.35	8.00 (3.5 - 10.1)	2.20 (1.17 - 3.55)	3.64	8.0	6.0	A+
	7	7	12	12	1.72	1.72	2.28	2.28	8.00 (2.8 - 10.0)	2.22 (0.98 - 3.55)	3.60	8.0	6.1	A++
	7	7	12	14	1.61	1.61	2.13	2.65	8.00 (2.8 - 10.0)	2.22 (0.98 - 3.57)	3.60	8.0	6.1	A++
	7	7	12	18	1.43	1.43	1.91	3.22	8.00 (3.5 - 10.1)	2.20 (1.17 - 3.56)	3.64	8.0	6.0	A+
	7	7	14	14	1.50	1.50	2.50	2.50	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	7	7	14	18	1.35	1.35	2.25	3.04	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	7	9	9	9	1.81	2.03	2.03	2.03	7.90 (2.8 - 9.9)	2.22 (0.98 - 3.56)	3.56	7.9	6.2	A++
	7	9	9	12	1.76	1.96	1.96	2.32	8.00 (2.8 - 10.0)	2.22 (0.98 - 3.56)	3.60	8.0	6.1	A++
	7	9	9	14	1.64	1.83	1.83	2.70	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.1	A++
	7	9	9	18	1.45	1.64	1.64	3.27	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	7	9	12	12	1.68	1.88	2.22	2.22	8.00 (2.8 - 10.0)	2.22 (0.98 - 3.56)	3.60	8.0	6.1	A++
	7	9	12	14	1.57	1.76	2.08	2.59	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	7	9	12	18	1.40	1.58	1.87	3.15	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	7	9	14	14	1.48	1.66	2.43	2.43	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	7	9	14	18*3	1.32	1.49	2.21	2.98	8.00 (4.7 - 10.1)	2.22 (1.27 - 3.57)	3.60	8.0	6.0	A+
	7	12	12	12	1.61	2.13	2.13	2.13	8.00 (2.8 - 10.1)	2.22 (0.98 - 3.56)	3.60	8.0	6.0	A+
	7	12	12	14	1.51	2.00	2.00	2.49	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	7	12	12	18	1.35	1.80	1.80	3.04	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	7	12	14	14	1.41	1.89	2.35	2.35	8.00 (3.5 - 10.1)	2.22 (1.17 - 3.58)	3.60	8.0	6.0	A+
	9	9	9	9	2.00	2.00	2.00	2.00	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.2	A++
	9	9	9	12	1.91	1.91	1.91	2.27	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.1	A++
	9	9	9	14	1.79	1.79	1.79	2.63	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	9	9	18*1	1.60	1.60	1.60	3.20	8.00 (4.7 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	9	12	12	1.83	1.83	2.17	2.17	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	9	12	14	1.72	1.72	2.03	2.53	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	9	12	18*2	1.54	1.54	1.83	3.09	8.00 (4.7 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	9	14	14	1.62	1.62	2.38	2.38	8.00 (4.7 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	12	12	12	1.76	2.08	2.08	2.08	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	12	12	14	1.66	1.95	1.95	2.44	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	9	12	14	14	1.55	1.85	2.30	2.30	8.00 (4.7 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+
	12	12	12	12	2.00	2.00	2.00	2.00	8.00 (3.5 - 10.0)	2.22 (1.17 - 3.56)	3.60	8.0	6.0	A+

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •3 or more indoor units should be connected.
- •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 49000Btu from 27000Btu.
- *1: Connection of ASYG18L + ARYG09L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
- *2: Connection of ASYG18L + ARYG12L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
- *3: Connection of ASYG18L + AUYG14L + ARYG09L + ASYG07K is not available. All types other than this combination can be connected.

4-unit Multi-split heating

AOYG30LAT4	Combination of Indoor Unit				Heating Operation									
					Heating Capacity					Input Power (min-max)	COP	Seasonal Data		
					Unit 1	Unit 2	Unit 3	Unit 4	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency
					kW	kW	kW	kW	kW	kW		kW		
3-unit connection	7	7	14	-	2.42	2.42	4.15	-	9.00 (1.8 - 10.1)	2.66 (0.58 - 3.53)	3.38	5.8	3.8	A
	7	7	18	-	2.27	2.27	4.86	-	9.40 (3.3 - 11.2)	2.46 (0.87 - 3.52)	3.82	5.8	3.8	A
	7	7	24	-	2.03	2.03	5.44	-	9.50 (3.3 - 11.5)	2.47 (0.87 - 3.52)	3.85	5.8	3.8	A
	7	9	12	-	2.49	2.94	3.56	-	9.00 (1.8 - 10.0)	2.69 (0.58 - 3.51)	3.35	5.8	3.8	A
	7	9	14	-	2.33	2.75	4.00	-	9.10 (3.3 - 10.2)	2.64 (0.87 - 3.50)	3.45	5.8	3.8	A
	7	9	18	-	2.17	2.56	4.66	-	9.40 (3.3 - 11.3)	2.45 (0.87 - 3.50)	3.84	5.8	3.8	A
	7	9	24	-	1.98	2.33	5.29	-	9.60 (3.3 - 11.5)	2.46 (0.87 - 3.51)	3.90	5.8	3.8	A
	7	12	12	-	2.33	3.33	3.33	-	9.00 (1.8 - 10.1)	2.66 (0.58 - 3.48)	3.38	5.8	3.8	A
	7	12	14	-	2.22	3.17	3.80	-	9.20 (3.3 - 10.3)	2.62 (0.87 - 3.48)	3.51	5.8	3.8	A
	7	12	18	-	2.08	2.97	4.45	-	9.50 (3.3 - 11.4)	2.44 (0.87 - 3.47)	3.89	5.8	3.8	A
	7	12	24	-	1.88	2.69	5.03	-	9.60 (3.3 - 11.7)	2.45 (0.87 - 3.56)	3.92	5.8	3.8	A
	7	14	14	-	2.10	3.60	3.60	-	9.30 (3.3 - 10.6)	2.59 (0.87 - 3.48)	3.59	5.8	3.8	A
	7	14	18	-	1.96	3.35	4.19	-	9.50 (3.7 - 11.5)	2.42 (0.97 - 3.52)	3.93	5.8	3.8	A
	7	14	24	-	1.78	3.05	4.77	-	9.60 (3.3 - 11.7)	2.45 (0.87 - 3.56)	3.92	5.8	3.8	A
	7	18	18	-	1.82	3.89	3.89	-	9.60 (3.7 - 12.0)	2.40 (0.97 - 3.52)	4.00	5.8	3.8	A
	7	18	24	-	1.65	3.53	4.42	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A
	9	9	9	-	3.00	3.00	3.00	-	9.00 (3.3 - 10.0)	2.69 (0.87 - 3.51)	3.35	5.8	3.8	A
	9	9	12	-	2.80	2.80	3.39	-	9.00 (3.3 - 10.1)	2.67 (0.87 - 3.48)	3.37	5.8	3.8	A
	9	9	14	-	2.66	2.66	3.87	-	9.20 (3.3 - 10.3)	2.63 (0.87 - 3.48)	3.50	5.8	3.8	A
	9	9	18	-	2.49	2.49	4.52	-	9.50 (3.7 - 11.4)	2.44 (0.97 - 3.48)	3.89	5.8	3.8	A
	9	9	24	-	2.25	2.25	5.11	-	9.60 (3.7 - 11.7)	2.45 (0.97 - 3.57)	3.92	5.8	3.8	A
	9	12	12	-	2.65	3.22	3.22	-	9.10 (3.3 - 10.3)	2.65 (0.87 - 3.52)	3.43	5.8	3.8	A
	9	12	14	-	2.53	3.07	3.69	-	9.30 (3.3 - 10.5)	2.61 (0.87 - 3.52)	3.56	5.8	3.8	A
	9	12	18	-	2.36	2.86	4.29	-	9.50 (3.7 - 11.4)	2.43 (0.97 - 3.47)	3.91	5.8	3.8	A
	9	12	24	-	2.14	2.59	4.86	-	9.60 (3.7 - 11.8)	2.44 (0.97 - 3.55)	3.93	5.8	3.8	A
	9	14	14	-	2.38	3.46	3.46	-	9.30 (3.7 - 10.7)	2.58 (0.97 - 3.46)	3.60	5.8	3.8	A
	9	14	18	-	2.22	3.23	4.04	-	9.50 (3.7 - 11.6)	2.41 (0.97 - 3.51)	3.94	5.8	3.8	A
	9	14	24	-	2.03	2.95	4.62	-	9.60 (4.3 - 11.9)	2.42 (1.12 - 3.57)	3.97	5.8	3.8	A
	9	18	18	-	2.07	3.76	3.76	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A
	12	12	12	-	3.07	3.07	3.07	-	9.20 (3.3 - 10.3)	2.63 (0.87 - 3.49)	3.50	5.8	3.8	A
	12	12	14	-	2.91	2.91	3.49	-	9.30 (3.3 - 10.6)	2.59 (0.87 - 3.49)	3.59	5.8	3.8	A
	12	12	18	-	2.71	2.71	4.07	-	9.50 (3.7 - 11.6)	2.42 (0.97 - 3.52)	3.93	5.8	3.8	A
	12	12	24	-	2.48	2.48	4.65	-	9.60 (3.7 - 11.8)	2.43 (0.97 - 3.54)	3.95	5.8	3.8	A
	12	14	14	-	2.76	3.32	3.32	-	9.40 (3.7 - 10.8)	2.40 (0.97 - 3.50)	3.92	5.8	3.8	A
	12	14	18	-	2.57	3.08	3.85	-	9.50 (3.7 - 11.6)	2.40 (0.97 - 3.49)	3.96	5.8	3.8	A
	12	18	18	-	2.40	3.60	3.60	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A
4-unit connection	7	7	7	7	2.35	2.35	2.35	2.35	9.40 (1.8 - 10.8)	2.43 (0.58 - 3.47)	3.87	6.2	4.0	A+
	7	7	7	9	2.27	2.27	2.27	2.68	9.50 (1.8 - 10.9)	2.42 (0.58 - 3.51)	3.88	6.2	4.0	A+
	7	7	7	12	2.14	2.14	2.14	3.06	9.50 (1.8 - 11.1)	2.41 (0.58 - 3.55)	3.94	6.2	4.0	A+
	7	7	7	14	2.04	2.04	2.04	3.49	9.60 (3.3 - 11.3)	2.38 (0.87 - 3.56)	4.03	6.2	4.0	A+
	7	7	7	18	1.87	1.87	1.87	4.00	9.60 (3.3 - 12.0)	2.27 (0.87 - 3.56)	4.23	6.2	4.0	A+
	7	7	9	9	2.18	2.18	2.57	2.57	9.50 (3.3 - 10.9)	2.41 (0.87 - 3.44)	3.94	6.2	4.0	A+
	7	7	9	12	2.06	2.06	2.43	2.95	9.50 (3.3 - 11.1)	2.40 (0.87 - 3.54)	3.96	6.2	4.0	A+
	7	7	9	14	1.96	1.96	2.31	3.36	9.60 (3.3 - 11.4)	2.38 (0.87 - 3.54)	4.03	6.2	4.0	A+
	7	7	9	18	1.80	1.80	2.13	3.87	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.55)	4.23	6.2	4.0	A+
	7	7	12	12	1.98	1.98	2.82	2.82	9.60 (3.3 - 11.3)	2.39 (0.87 - 3.57)	4.02	6.2	4.0	A+
	7	7	12	14	1.87	1.87	2.67	3.20	9.60 (3.3 - 11.5)	2.36 (0.87 - 3.58)	4.07	6.2	4.0	A+
	7	7	12	18	1.72	1.72	2.46	3.69	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+
	7	7	14	14	1.77	1.77	3.03	3.03	9.60 (3.7 - 11.8)	2.34(0.97 - 3.58)	4.10	6.2	4.0	A+
	7	7	14	18	1.64	1.64	2.81	3.51	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.56)	4.23	6.2	4.0	A+
	7	9	9	9	2.09	2.47	2.47	2.47	9.50 (3.3 - 11.2)	2.40 (0.87 - 3.54)	4.00	6.2	4.0	A+
	7	9	9	12	2.01	2.36	2.36	2.87	9.60 (3.3 - 11.3)	2.39(0.87 - 3.58)	4.02	6.2	4.0	A+
	7	9	9	14	1.89	2.23	2.23	3.25	9.60 (3.7 - 11.5)	2.37 (0.97 - 3.58)	4.05	6.2	4.0	A+
	7	9	9	18	1.75	2.06	2.06	3.74	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+
	7	9	12	12	1.91	2.25	2.72	2.72	9.60 (3.3 - 11.4)	2.38 (0.87 - 3.58)	4.03	6.2	4.0	A+
	7	9	12	14	1.80	2.13	2.58	3.09	9.60 (3.7 - 11.6)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+
	7	9	12	18	1.67	1.97	2.39	3.58	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+
	7	9	14	14	1.71	2.02	2.94	2.94	9.60 (3.7 - 11.8)	2.33 (0.97 - 3.58)	4.12	6.2	4.0	A+
	7	9	14	18*3	1.59	1.87	2.73	3.41	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+
	7	12	12	12	1.81	2.59	2.59	2.59	9.60 (3.3 - 11.5)	2.37 (0.87 - 3.58)	4.05	6.2	4.0	A+
	7	12	12	14	1.72	2.46	2.46	2.95	9.60 (3.7 - 11.7)	2.34 (0.97 - 3.58)	4.10	6.2	4.0	A+
	7	12	12	18	1.60	2.29	2.29	3.43	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.56)	4.23	6.2	4.0	A+
	7	12	14	14	1.64	2.34	2.81	2.81	9.60 (3.7 - 11.9)	2.32 (0.97 - 3.58)	4.14	6.2	4.0	A+
	9	9	9	9	2.40	2.40	2.40	2.40	9.60 (3.7 - 11.3)	2.40 (0.97 - 3.58)	4.00	6.2	4.0	A+
	9	9	9	12	2.28	2.28	2.28	2.76	9.60 (3.7 - 11.4)	2.38 (0.97 - 3.58)	4.03	6.2	4.0	A+
	9	9	9	14	2.16	2.16	2.16	3.14	9.60 (3.7 - 11.6)	2.36 (0.97 - 3.58)	4.07	6.2	4.0	A+
	9	9	9	18*1	1.99	1.99	1.99	3.62	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+
	9	9	12	12	2.17	2.17	2.63	2.63	9.60 (3.7 - 11.5)	2.37 (0.97 - 3.58)	4.05	6.2	4.0	A+
	9	9	12	14	2.06	2.06	2.49	2.99	9.60 (3.7 - 11.7)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+
	9	9	12	18*2	1.91	1.91	2.31	3.47	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+
	9	9	14	14	1.96	1.96	2.84	2.84	9.60 (4.3 - 11.9)	2.33 (1.12 - 3.58)	4.12	6.2	4.0	A+
	9	12	12	12	2.07	2.51	2.51	2.51	9.60 (3.7 - 11.6)	2.36 (0.97 - 3.58)	4.07	6.2	4.0	A+
	9	12	12	14	1.97	2.39	2.39	2.87	9.60 (3.7 - 11.8)	2.34 (0.97 - 3.58)	4.10	6.2	4.0	A+
	9	12	14	14	1.87	2.27	2.73	2.73	9.60 (4.3 - 11.9)	2.31 (1.12 - 3.58)	4.16	6.2	4.0	A+
	12	12	12	12	2.40	2.40	2.40	2.40	9.60 (3.7 - 11.6)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •3 or more indoor units should be connected.
- •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 49000Btu from 27000Btu.
- *1: Connection of ASYG18L + ARYG09L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
- *2: Connection of ASYG18L + ARYG12L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
- *3: Connection of ASYG18L + AUYG14L + ARYG09L + ASYG07K is not available. All types other than this combination can be connected.

5-unit Multi-split Combination Table-Cooling

5-unit Multi-split cooling

AOYG36LBLA5	Combination of Indoor Unit					Cooling Operation										
						Cooling Capacity						Input Power (min-max)	EER	Seasonal Data		
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency
						kW	kW	kW	kW	kW	kW	kW		kW		
2-unit connection	7	24	-	-	-	2.00	7.00	-	-	-	9.0 (3.5-11.1)	2.31 (0.8-3.29)	3.89	9.0	6.5	A++
	9	24	-	-	-	2.50	7.00	-	-	-	9.5 (3.5-11.8)	2.53 (0.8-3.59)	3.75	9.5	6.5	A++
	12	24	-	-	-	3.33	6.67	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++
	14	24	-	-	-	3.68	6.32	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++
	18	18	-	-	-	5.00	5.00	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++
	18	24	-	-	-	4.29	5.71	-	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.4	A++
	24	24	-	-	-	5.00	5.00	-	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.4	A++
3-unit connection	7	7	14	-	-	2.00	2.00	4.00	-	-	8.0 (3.5-10.0)	1.90 (0.8-2.85)	4.21	8.0	6.7	A++
	7	7	18	-	-	2.00	2.00	5.00	-	-	9.0 (3.5-11.4)	2.32 (0.8-3.44)	3.88	9.0	6.7	A++
	7	7	24	-	-	1.84	1.84	6.32	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	7	9	12	-	-	2.00	2.50	3.50	-	-	8.0 (3.5-10.0)	1.90 (0.8-2.85)	4.21	8.0	6.7	A++
	7	9	14	-	-	2.00	2.50	4.00	-	-	8.5 (3.5-10.7)	2.10 (0.8-3.15)	4.05	8.5	6.7	A++
	7	9	18	-	-	2.00	2.50	5.00	-	-	9.5 (3.5-12.1)	2.55 (0.8-3.74)	3.72	9.5	6.6	A++
	7	9	24	-	-	1.75	2.25	6.00	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++
	7	12	12	-	-	2.00	3.50	3.50	-	-	9.0 (3.5-11.1)	2.27 (0.8-3.29)	3.97	9.0	6.7	A++
	7	12	14	-	-	2.00	3.50	4.00	-	-	9.5 (3.5-11.8)	2.50 (0.8-3.59)	3.80	9.5	6.7	A++
	7	12	18	-	-	1.89	3.24	4.87	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	7	12	24	-	-	1.63	2.79	5.58	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++
	7	14	14	-	-	2.00	4.00	4.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	7	14	18	-	-	1.79	3.59	4.62	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++
	7	14	24	-	-	1.56	3.11	5.33	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++
	7	18	18	-	-	1.62	4.19	4.19	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++
	7	18	24	-	-	1.43	3.67	4.90	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++
	9	9	9	-	-	2.50	2.50	2.50	-	-	7.5 (3.5-9.6)	1.74 (0.8-2.70)	4.30	7.5	6.7	A++
	9	9	12	-	-	2.50	2.50	3.50	-	-	8.5 (3.5-10.7)	2.10 (0.8-3.15)	4.05	8.5	6.7	A++
	9	9	14	-	-	2.50	2.50	4.00	-	-	9.0 (3.5-11.4)	2.32 (0.8-3.44)	3.88	9.0	6.7	A++
	9	9	18	-	-	2.50	2.50	5.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	9	9	24	-	-	2.14	2.14	5.72	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++
	9	12	12	-	-	2.50	3.50	3.50	-	-	9.5 (3.5-11.8)	2.50 (0.8-3.59)	3.80	9.5	6.7	A++
	9	12	14	-	-	2.50	3.50	4.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	9	12	18	-	-	2.31	3.08	4.61	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++
	9	12	24	-	-	2.00	2.67	5.33	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++
	9	14	14	-	-	2.44	3.78	3.78	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	9	14	18	-	-	2.20	3.41	4.39	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++
	9	14	24	-	-	1.91	2.98	5.11	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++
	9	18	18	-	-	2.00	4.00	4.00	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++
	9	18	24	-	-	1.76	3.53	4.71	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++
	12	12	12	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	12	12	14	-	-	3.16	3.16	3.68	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
	12	12	18	-	-	2.86	2.86	4.28	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++
	12	12	24	-	-	2.50	2.50	5.00	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++
	12	14	14	-	-	3.00	3.50	3.50	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++
	12	14	18	-	-	2.73	3.18	4.09	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++
	12	14	24	-	-	2.40	2.80	4.80	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++
	12	18	18	-	-	2.50	3.75	3.75	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++
	12	18	24	-	-	2.22	3.33	4.45	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.64	10.0	6.5	A++
	14	14	14	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++
	14	14	18	-	-	3.04	3.04	3.92	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++
	14	14	24	-	-	2.69	2.69	4.62	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.63	10.0	6.5	A++
	14	18	18	-	-	2.80	3.60	3.60	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++
	18	18	18	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.64	10.0	6.5	A++
4-unit connection	7	7	7	7	-	2.00	2.00	2.00	2.00	-	8.0 (3.5-10.0)	1.84 (0.8-2.85)	4.34	8.0	6.8	A++
	7	7	7	9	-	2.00	2.00	2.00	2.50	-	8.5 (3.5-10.7)	2.00 (0.8-3.15)	4.25	8.5	6.8	A++
	7	7	7	12	-	2.00	2.00	2.00	3.50	-	9.5 (3.5-11.8)	2.32 (0.8-3.59)	4.10	9.5	6.8	A++
	7	7	7	14	-	2.00	2.00	2.00	4.00	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
	7	7	7	18	-	1.79	1.79	1.79	4.63	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++
	7	7	7	24	-	1.56	1.56	1.56	5.32	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	7	7	9	9	-	2.00	2.00	2.50	2.50	-	9.0 (3.5-11.4)	2.17 (0.8-3.44)	4.15	9.0	6.8	A++
	7	7	9	12	-	2.00	2.00	2.50	3.50	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
	7	7	9	14	-	1.89	1.89	2.43	3.79	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
	7	7	9	18	-	1.71	1.71	2.20	4.38	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++
	7	7	9	24	-	1.49	1.49	1.91	5.11	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	7	7	12	12	-	1.84	1.84	3.16	3.16	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++
	7	7	12	14	-	1.75	1.75	3.00	3.50	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++
	7	7	12	18	-	1.59	1.59	2.73	4.09	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.04	10.0	6.8	A++
	7	7	12	24	-	1.40	1.40	2.40	4.80	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	7	7	14	14	-	1.67	1.67	3.33	3.33	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++
	7	7	14	18	-	1.52	1.52	3.04	3.92	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	7	7	14	24	-	1.35	1.35	2.69	4.61	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	7	7	18	18	-	1.40	1.40	3.60	3.60	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	7	9	9	9	-	2.00	2.50	2.50	2.50	-	9.5 (3.5-12.1)	2.35 (0.8-3.74)	4.05	9.5	6.8	A++
	7	9	9	12	-	1.89	2.43	2.43	3.25	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
	7	9	9	14	-	1.79	2.31	2.31	3.59	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++
	7	9	9	18	-	1.63	2.09	2.09	4.19	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++
	7	9	9	24	-	1.43	1.84	1.84	4.89	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	7	9	12	12	-	1.75	2.25	3.00	3.00	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++
	7	9	12	14	-	1.67	2.14	2.86	3.33	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++
	7	9	12	18	-	1.52	1.96	2.61	3.91	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	7	9	12	24	-	1.35	1.73	2.31	4.61	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	7	9	14	14	-	1.59	2.05	3.18	3.18	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.04	10.0	6.8	A++
	7	9	14	18	-	1.46	1.88	2.92	3.74	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	7	9	14	24	-	1.30	1.67	2.59	4.44	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++
	7	9	18	18	-	1.35	1.73	3.46	3.46	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	7	12	12	12	-	1.63	2.79	2.79	2.79	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++
	7	12	12	14	-	1.56	2.67	2.67	3.10	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	7	12	12	18	-	1.43	2.45	2.45	3.67	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	7	12	14	14	-	1.49	2.55	2.98	2.98	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	7	12	14	18	-	1.37	2.35	2.75	3.53	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	7	14	14	14	-	1.42	2.86	2.86	2.86	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	7	14	14	18	-	1.32	2.64	2.64	3.40	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.09	10.0	6.7	A++
	9	9	9	9	-	2.50	2.50	2.50	2.50	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
	9	9	9	12	-	2.31	2.31	2.31	3.07	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++
	9	9	9	14	-	2.20	2.20	2.20	3.40	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++
	9	9	9	18	-	2.00	2.00	2.00	4.00	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	9	9	9	24	-	1.76	1.76	1.76	4.72	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	9	9	12	12	-	2.14	2.14	2.86	2.86	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++
	9	9	12	14	-	2.05	2.05	2.73	3.17	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.04	10.0	6.8	A++
	9	9	12	18	-	1.88	1.88	2.50	3.74	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	9	9	12	24	-	1.67	1.67	2.22	4.44	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++
	9	9	14	14	-	1.96	1.96	3.04	3.04	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	9	9	14	18	-	1.80	1.80	2.80	3.60	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	9	9	18	18	-	1.67	1.67	3.33	3.33	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++
	9	12	12	12	-	1.99	2.67	2.67	2.67	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++
	9	12	12	14	-	1.91	2.55	2.55	2.99	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	9	12	12	18	-	1.76	2.35	2.35	3.54	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	9	12	14	14	-	1.83	2.45	2.86	2.86	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	9	12	14	18	-	1.70	2.26	2.64	3.40	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.09	10.0	6.7	A++
	9	14	14	14	-	1.75	2.75	2.75	2.75	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	12	12	12	12	-	2.50	2.50	2.50	2.50	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++
	12	12	12	14	-	2.40	2.40	2.40	2.80	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++
	12	12	12	18	-	2.22	2.22	2.22	3.34	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++
	12	12	14	14	-	2.31	2.31	2.69	2.69	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++
	12	14	14	14	-	2.23	2.59	2.59	2.59	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

5-unit Multi-split cooling

AOYG36LBLA5	Combination of Indoor Unit					Cooling Operation										
						Cooling Capacity						Input Power (min-max)	EER	Seasonal Data		
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency
						kW	kW	kW	kW	kW	kW	kW		kW		
5-unit connection	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++
	7	7	7	7	9	1.89	1.89	1.89	1.89	2.44	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++
	7	7	7	7	12	1.75	1.75	1.75	1.75	3.00	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.11	10.0	7.0	A++
	7	7	7	7	14	1.67	1.67	1.67	1.67	3.32	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++
	7	7	7	7	18	1.52	1.52	1.52	1.52	3.92	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++
	7	7	7	7	24	1.35	1.35	1.35	1.35	4.60	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	7	7	9	9	1.79	1.79	1.79	2.31	2.31	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.11	10.0	7.0	A++
	7	7	7	9	12	1.67	1.67	1.67	2.14	2.85	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++
	7	7	7	9	14	1.59	1.59	1.59	2.05	3.18	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.14	10.0	7.0	A++
	7	7	7	9	18	1.46	1.46	1.46	1.88	3.74	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	7	7	7	9	24	1.30	1.30	1.30	1.67	4.43	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++
	7	7	7	12	12	1.56	1.56	1.56	2.66	2.66	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	7.0	A++
	7	7	7	12	14	1.49	1.49	1.49	2.55	2.98	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.16	10.0	6.9	A++
	7	7	7	12	18	1.37	1.37	1.37	2.35	3.54	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	7	7	14	14	1.43	1.43	1.43	2.86	2.86	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	7	7	7	14	18	1.32	1.32	1.32	2.64	3.40	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++
	7	7	9	9	9	1.70	1.70	2.20	2.20	2.20	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.12	10.0	7.0	A++
	7	7	9	9	12	1.59	1.59	2.05	2.05	2.72	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.14	10.0	7.0	A++
	7	7	9	9	14	1.52	1.52	1.96	1.96	3.04	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++
	7	7	9	9	18	1.40	1.40	1.80	1.80	3.60	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++
	7	7	9	12	12	1.49	1.49	1.92	2.55	2.55	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.16	10.0	6.9	A++
	7	7	9	12	14	1.43	1.43	1.84	2.45	2.85	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	7	7	9	12	18	1.32	1.32	1.70	2.26	3.40	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++
	7	7	9	14	14	1.37	1.37	1.76	2.75	2.75	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	7	12	12	12	1.40	1.40	2.40	2.40	2.40	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++
	7	7	12	12	14	1.35	1.35	2.31	2.31	2.68	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	7	12	14	14	1.30	1.30	2.22	2.59	2.59	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++
	7	9	9	9	9	1.64	2.09	2.09	2.09	2.09	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++
	7	9	9	9	12	1.52	1.96	1.96	1.96	2.60	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++
	7	9	9	9	14	1.46	1.88	1.88	1.88	2.90	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	7	9	9	9	18	1.35	1.73	1.73	1.73	3.46	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	9	9	12	12	1.42	1.84	1.84	2.45	2.45	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	7	9	9	12	14	1.37	1.76	1.76	2.35	2.76	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	9	9	14	14	1.32	1.70	1.70	2.64	2.64	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++
	7	9	12	12	12	1.34	1.73	2.31	2.31	2.31	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	7	9	12	12	14	1.30	1.67	2.22	2.22	2.59	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++
	9	9	9	9	9	2.00	2.00	2.00	2.00	2.00	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	7.0	A++
	9	9	9	9	12	1.88	1.88	1.88	1.88	2.48	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++
	9	9	9	9	14	1.80	1.80	1.80	1.80	2.80	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++
	9	9	9	9	18	1.67	1.67	1.67	1.67	3.32	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++
	9	9	9	12	12	1.76	1.76	1.76	2.36	2.36	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++
	9	9	9	12	14	1.70	1.70	1.70	2.26	2.64	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++
	9	9	12	12	12	1.67	1.67	2.22	2.22	2.22	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

5-unit Multi-split Combination Table–Heating

5-unit Multi-split heating

AOYG36LBLA5	Combination of Indoor Unit					Heating Operation										
						Heating Capacity						Input Power (min-max)	COP	Seasonal Data		
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency
						kW	kW	kW	kW	kW	kW	kW		kW		
2-unit connection	7	24	-	-	-	2.40	8.40	-	-	-	10.8 (3.5-12.4)	2.97 (0.7-3.34)	3.64	8.9	3.9	A
	9	24	-	-	-	3.00	8.40	-	-	-	11.4 (3.5-13.2)	3.15 (0.7-3.58)	3.62	9.0	3.9	A
	12	24	-	-	-	4.00	8.00	-	-	-	12.0 (3.5-14.0)	3.34 (0.7-3.82)	3.59	9.0	4.0	A+
	14	24	-	-	-	4.42	7.58	-	-	-	12.0 (3.5-14.0)	3.33 (0.7-3.82)	3.60	9.0	4.0	A+
	18	18	-	-	-	6.00	6.00	-	-	-	12.0 (3.5-14.0)	3.34 (0.7-3.82)	3.59	9.0	4.0	A+
	18	24	-	-	-	5.14	6.86	-	-	-	12.0 (3.5-14.0)	3.32 (0.7-3.82)	3.61	9.0	4.0	A+
	24	24	-	-	-	6.00	6.00	-	-	-	12.0 (3.5-14.0)	3.31 (0.7-3.82)	3.62	9.0	4.0	A+
3-unit connection	7	7	14	-	-	2.40	2.40	4.80	-	-	9.6 (3.5-11.2)	2.45 (0.7-2.98)	3.92	8.8	4.0	A+
	7	7	18	-	-	2.40	2.40	6.00	-	-	10.8 (3.5-12.8)	2.80 (0.7-3.46)	3.86	9.0	4.0	A+
	7	7	24	-	-	2.21	2.21	7.58	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	7	9	12	-	-	2.40	3.00	4.20	-	-	9.6 (3.5-11.2)	2.45 (0.7-2.98)	3.92	8.8	4.0	A+
	7	9	14	-	-	2.40	3.00	4.80	-	-	10.2 (3.5-12.0)	2.63 (0.7-3.22)	3.88	8.9	4.0	A+
	7	9	18	-	-	2.40	3.00	6.00	-	-	11.4 (3.5-13.6)	2.97 (0.7-3.70)	3.84	9.0	4.0	A+
	7	9	24	-	-	2.10	2.70	7.20	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	7	12	12	-	-	2.40	4.20	4.20	-	-	10.8 (3.5-12.4)	2.79 (0.7-3.34)	3.87	8.9	4.0	A+
	7	12	14	-	-	2.40	4.20	4.80	-	-	11.4 (3.5-13.2)	2.96 (0.7-3.58)	3.85	9.0	4.0	A+
	7	12	18	-	-	2.27	3.89	5.84	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	7	12	24	-	-	1.95	3.35	6.70	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	7	14	14	-	-	2.40	4.80	4.80	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	7	14	18	-	-	2.15	4.31	5.54	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	7	14	24	-	-	1.87	3.73	6.40	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	7	18	18	-	-	1.96	5.02	5.02	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	7	18	24	-	-	1.71	4.41	5.88	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	9	9	9	-	-	3.00	3.00	3.00	-	-	9.0 (3.5-10.8)	2.29 (0.7-2.86)	3.93	8.8	4.0	A+
	9	9	12	-	-	3.00	3.00	4.20	-	-	10.2 (3.5-12.0)	2.63 (0.7-3.22)	3.88	8.9	4.0	A+
	9	9	14	-	-	3.00	3.00	4.80	-	-	10.8 (3.5-12.8)	2.80 (0.7-3.46)	3.86	9.0	4.0	A+
	9	9	18	-	-	3.00	3.00	6.00	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	9	9	24	-	-	2.57	2.57	6.86	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	9	12	12	-	-	3.00	4.20	4.20	-	-	11.4 (3.5-13.2)	2.96 (0.7-3.58)	3.85	9.0	4.0	A+
	9	12	14	-	-	3.00	4.20	4.80	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	9	12	18	-	-	2.77	3.69	5.54	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	9	12	24	-	-	2.40	3.20	6.40	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	9	14	14	-	-	2.92	4.54	4.54	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	9	14	18	-	-	2.63	4.10	5.27	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	9	14	24	-	-	2.30	3.57	6.13	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	9	18	18	-	-	2.40	4.80	4.80	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	9	18	24	-	-	2.12	4.24	5.64	-	-	12.0 (3.5-14.0)	3.12 (0.7-3.82)	3.85	9.0	4.0	A+
	12	12	12	-	-	4.00	4.00	4.00	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	12	12	14	-	-	3.79	3.79	4.42	-	-	12.0 (3.5-14.0)	3.14 (0.7-3.82)	3.82	9.0	4.0	A+
	12	12	18	-	-	3.43	3.43	5.14	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	12	12	24	-	-	3.00	3.00	6.00	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	12	14	14	-	-	3.60	4.20	4.20	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	12	14	18	-	-	3.27	3.82	4.91	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	12	14	24	-	-	2.88	3.36	5.76	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	12	18	18	-	-	3.00	4.50	4.50	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	12	18	24	-	-	2.67	4.00	5.33	-	-	12.0 (3.5-14.0)	3.12 (0.7-3.82)	3.85	9.0	4.0	A+
	14	14	14	-	-	4.00	4.00	4.00	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.83	9.0	4.0	A+
	14	14	18	-	-	3.65	3.65	4.70	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	14	14	24	-	-	3.23	3.23	5.54	-	-	12.0 (3.5-14.0)	3.12 (0.7-3.82)	3.85	9.0	4.0	A+
	14	18	18	-	-	3.36	4.32	4.32	-	-	12.0 (3.5-14.0)	3.13 (0.7-3.82)	3.84	9.0	4.0	A+
	18	18	18	-	-	4.00	4.00	4.00	-	-	12.0 (3.5-14.0)	3.12 (0.7-3.82)	3.85	9.0	4.0	A+
4-unit connection	7	7	7	7	-	2.40	2.40	2.40	2.40	-	9.6 (3.5-11.2)	2.31 (0.7-2.98)	4.16	8.8	4.2	A+
	7	7	7	9	-	2.40	2.40	2.40	3.00	-	10.2 (3.5-12.0)	2.47 (0.7-3.22)	4.13	8.9	4.2	A+
	7	7	7	12	-	2.40	2.40	2.40	4.20	-	11.4 (3.5-13.2)	2.79 (0.7-3.58)	4.09	9.0	4.2	A+
	7	7	7	14	-	2.40	2.40	2.40	4.80	-	12.0 (3.5-14.0)	2.95 (0.7-3.82)	4.07	9.0	4.2	A+
	7	7	7	18	-	2.15	2.15	2.15	5.55	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	7	7	24	-	1.87	1.87	1.87	6.39	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	7	9	9	-	2.40	2.40	3.00	3.00	-	10.8 (3.5-12.8)	2.64 (0.7-3.46)	4.09	9.0	4.2	A+
	7	7	9	12	-	2.40	2.40	3.00	4.20	-	12.0 (3.5-14.0)	2.95 (0.7-3.82)	4.07	9.0	4.2	A+
	7	7	9	14	-	2.27	2.27	2.92	4.54	-	12.0 (3.5-14.0)	2.95 (0.7-3.82)	4.07	9.0	4.2	A+
	7	7	9	18	-	2.05	2.05	2.63	5.27	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	7	9	24	-	1.79	1.79	2.30	6.12	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	7	12	12	-	2.21	2.21	3.79	3.79	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	7	12	14	-	2.10	2.10	3.60	4.20	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	7	12	18	-	1.91	1.91	3.27	4.91	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	7	12	24	-	1.68	1.68	2.88	5.76	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	7	14	14	-	2.00	2.00	4.00	4.00	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	7	14	18	-	1.83	1.83	3.65	4.69	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	7	14	24	-	1.62	1.62	3.23	5.53	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	7	18	18	-	1.68	1.68	4.32	4.32	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	9	9	9	-	2.40	3.00	3.00	3.00	-	11.4 (3.5-13.6)	2.80 (0.7-3.70)	4.07	9.0	4.2	A+
	7	9	9	12	-	2.27	2.92	2.92	3.89	-	12.0 (3.5-14.0)	2.95 (0.7-3.82)	4.07	9.0	4.2	A+
	7	9	9	14	-	2.15	2.77	2.77	4.31	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	9	9	18	-	1.95	2.51	2.51	5.03	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	9	9	24	-	1.71	2.20	2.20	5.89	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	9	12	12	-	2.10	2.70	3.60	3.60	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	7	9	12	14	-	2.00	2.57	3.43	4.00	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	9	12	18	-	1.83	2.35	3.13	4.69	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	9	12	24	-	1.62	2.08	2.77	5.53	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	9	14	14	-	1.91	2.45	3.82	3.82	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	9	14	18	-	1.75	2.25	3.50	4.50	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	9	14	24	-	1.56	2.00	3.11	5.33	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	7	9	18	18	-	1.62	2.08	4.15	4.15	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	12	12	12	-	1.95	3.35	3.35	3.35	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	7	12	12	14	-	1.87	3.20	3.20	3.73	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	12	12	18	-	1.71	2.94	2.94	4.41	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	12	14	14	-	1.80	3.06	3.57	3.57	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	7	12	14	18	-	1.65	2.82	3.29	4.24	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	14	14	14	-	1.71	3.43	3.43	3.43	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	7	14	14	18	-	1.58	3.17	3.17	4.08	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	9	9	9	9	-	3.00	3.00	3.00	3.00	-	12.0 (3.5-14.0)	2.95 (0.7-3.82)	4.07	9.0	4.2	A+
	9	9	9	12	-	2.77	2.77	2.77	3.69	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	9	9	9	14	-	2.63	2.63	2.63	4.11	-	12.0 (3.5-14.0)	2.94 (0.7-3.82)	4.08	9.0	4.2	A+
	9	9	9	18	-	2.40	2.40	2.40	4.80	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	9	9	9	24	-	2.12	2.12	2.12	5.64	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	9	9	12	12	-	2.57	2.57	3.43	3.43	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	9	9	12	14	-	2.45	2.45	3.27	3.83	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.09	9.0	4.2	A+
	9	9	12	18	-	2.25	2.25	3.00	4.50	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	9	9	12	24	-	2.00	2.00	2.67	5.33	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	9	9	14	14	-	2.35	2.35	3.65	3.65	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	9	9	14	18	-	2.16	2.16	3.36	4.32	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	9	9	18	18	-	2.00	2.00	4.00	4.00	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	9	12	12	12	-	2.40	3.20	3.20	3.20	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	9	12	12	14	-	2.30	3.06	3.06	3.58	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	9	12	12	18	-	2.12	2.82	2.82	4.24	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	9	12	14	14	-	2.20	2.94	3.43	3.43	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	9	12	14	18	-	2.04	2.72	3.17	4.07	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	9	14	14	14	-	2.13	3.29	3.29	3.29	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	12	12	12	12	-	3.00	3.00	3.00	3.00	-	12.0 (3.5-14.0)	2.93 (0.7-3.82)	4.10	9.0	4.2	A+
	12	12	12	14	-	2.88	2.88	2.88	3.36	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	12	12	12	18	-	2.67	2.67	2.67	3.99	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+
	12	12	14	14	-	2.77	2.77	3.23	3.23	-	12.0 (3.5-14.0)	2.92 (0.7-3.82)	4.11	9.0	4.2	A+
	12	14	14	14	-	2.67	3.11	3.11	3.11	-	12.0 (3.5-14.0)	2.91 (0.7-3.82)	4.12	9.0	4.2	A+

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

5-unit Multi-split heating

AOYG36LBLA5	Combination of Indoor Unit					Heating Operation										
						Heating Capacity						Input Power (min-max)	COP	Seasonal Data		
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency
						kW	kW	kW	kW	kW	kW	kW		kW		
5-unit connection	7	7	7	7	7	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+
	7	7	7	7	9	2.27	2.27	2.27	2.27	2.92	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+
	7	7	7	7	12	2.10	2.10	2.10	2.10	3.60	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+
	7	7	7	7	14	2.00	2.00	2.00	2.00	4.00	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+
	7	7	7	7	18	1.83	1.83	1.83	1.83	4.68	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	7	7	24	1.62	1.62	1.62	1.62	5.52	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	7	9	9	2.15	2.15	2.15	2.77	2.77	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+
	7	7	7	9	12	2.00	2.00	2.00	2.57	3.43	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+
	7	7	7	9	14	1.91	1.91	1.91	2.45	3.82	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+
	7	7	7	9	18	1.75	1.75	1.75	2.25	4.50	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	7	9	24	1.56	1.56	1.56	2.00	5.32	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	7	7	7	12	12	1.87	1.87	1.87	3.20	3.20	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	7	12	14	1.79	1.79	1.79	3.06	3.57	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	7	12	18	1.65	1.65	1.65	2.82	4.23	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	7	14	14	1.71	1.71	1.71	3.43	3.43	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	7	14	18	1.58	1.58	1.58	3.17	4.09	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	7	7	9	9	9	2.05	2.05	2.63	2.63	2.63	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+
	7	7	9	9	12	1.91	1.91	2.45	2.45	3.28	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+
	7	7	9	9	14	1.83	1.83	2.35	2.35	3.64	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	9	9	18	1.68	1.68	2.16	2.16	4.32	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	9	12	12	1.79	1.79	2.30	3.06	3.06	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	7	9	12	14	1.71	1.71	2.20	2.94	3.44	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	9	12	18	1.58	1.58	2.04	2.72	4.08	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	7	7	9	14	14	1.65	1.65	2.12	3.29	3.29	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	12	12	12	1.68	1.68	2.88	2.88	2.88	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	12	12	14	1.62	1.62	2.77	2.77	3.22	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	7	12	14	14	1.56	1.56	2.66	3.11	3.11	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	7	9	9	9	9	1.96	2.51	2.51	2.51	2.51	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+
	7	9	9	9	12	1.83	2.35	2.35	2.35	3.12	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	9	9	9	14	1.75	2.25	2.25	2.25	3.50	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	7	9	9	9	18	1.62	2.08	2.08	2.08	4.14	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	9	9	12	12	1.72	2.20	2.20	2.94	2.94	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	9	9	12	14	1.65	2.12	2.12	2.82	3.29	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	9	9	14	14	1.58	2.04	2.04	3.17	3.17	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	7	9	12	12	12	1.61	2.08	2.77	2.77	2.77	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	7	9	12	12	14	1.56	2.00	2.67	2.67	3.10	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	9	9	9	9	9	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	9	9	9	9	12	2.25	2.25	2.25	2.25	3.00	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+
	9	9	9	9	14	2.16	2.16	2.16	2.16	3.36	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	9	9	9	9	18	2.00	2.00	2.00	2.00	4.00	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	9	9	9	12	12	2.12	2.12	2.12	2.82	2.82	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+
	9	9	9	12	14	2.04	2.04	2.04	2.72	3.16	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+
	9	9	12	12	12	2.00	2.00	2.67	2.67	2.67	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

6-unit Multi-split Combination Table-Cooling

6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Unit						Cooling Operation								
							Cooling Capacity							Input Power (min-max)	EER
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (min-max)		
							kW	kW	kW	kW	kW	kW	kW	kW	
2-unit connection	12	24	-	-	-	-	3.50	7.00	-	-	-	-	10.5 (3.5-11.5)	3.06 (0.8-3.32)	3.43
	14	24	-	-	-	-	4.00	7.00	-	-	-	-	11.0 (3.5-12.1)	3.28 (0.8-3.70)	3.35
	18	18	-	-	-	-	5.00	5.00	-	-	-	-	10.0 (3.5-11.5)	2.92 (0.8-3.32)	3.42
	18	24	-	-	-	-	5.00	7.00	-	-	-	-	12.0 (3.5-13.4)	3.75 (0.8-4.46)	3.20
	24	24	-	-	-	-	6.25	6.25	-	-	-	-	12.5 (3.5-14.0)	4.01 (0.8-4.84)	3.12
3-unit connection	7	7	24	-	-	-	2.00	2.00	7.00	-	-	-	11.0 (3.5-12.1)	3.19 (0.8-3.70)	3.45
	7	9	18	-	-	-	2.00	2.50	5.00	-	-	-	9.5 (3.5-10.8)	2.55 (0.8-2.93)	3.73
	7	9	24	-	-	-	2.00	2.50	7.00	-	-	-	11.5 (3.5-12.7)	3.41 (0.8-4.08)	3.37
	7	12	18	-	-	-	2.00	3.50	5.00	-	-	-	10.5 (3.5-11.8)	3.02 (0.8-3.51)	3.48
	7	12	24	-	-	-	2.00	3.50	6.90	-	-	-	12.4 (3.5-13.7)	3.82 (0.8-4.65)	3.25
	7	14	14	-	-	-	2.00	4.00	4.00	-	-	-	10.0 (3.5-11.1)	2.81 (0.8-3.13)	3.56
	7	14	18	-	-	-	2.00	4.00	5.00	-	-	-	11.0 (3.5-12.4)	3.23 (0.8-3.89)	3.41
	7	14	24	-	-	-	1.94	3.89	6.67	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21
	7	18	18	-	-	-	2.00	5.00	5.00	-	-	-	12.0 (3.5-13.7)	3.69 (0.8-4.65)	3.25
	7	18	24	-	-	-	1.79	4.59	6.12	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23
	7	24	24	-	-	-	1.60	5.45	5.45	-	-	-	12.5 (3.5-14.0)	3.83 (0.8-4.84)	3.26
	9	9	18	-	-	-	2.50	2.50	5.00	-	-	-	10.0 (3.5-11.5)	2.84 (0.8-3.32)	3.52
	9	9	24	-	-	-	2.50	2.50	7.00	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29
	9	12	14	-	-	-	2.50	3.50	4.00	-	-	-	10.0 (3.5-11.1)	2.81 (0.8-3.13)	3.56
	9	12	18	-	-	-	2.50	3.50	5.00	-	-	-	11.0 (3.5-12.4)	3.23 (0.8-3.89)	3.41
	9	12	24	-	-	-	2.50	3.33	6.67	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21
	9	14	14	-	-	-	2.50	4.00	4.00	-	-	-	10.5 (3.5-11.8)	3.02 (0.8-3.51)	3.48
	9	14	18	-	-	-	2.50	4.00	5.00	-	-	-	11.5 (3.5-13.0)	3.45 (0.8-4.27)	3.33
	9	14	24	-	-	-	2.40	3.72	6.38	-	-	-	12.5 (3.5-14.0)	3.88 (0.8-4.84)	3.22
	9	18	18	-	-	-	2.50	5.00	5.00	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21
	9	18	24	-	-	-	2.21	4.41	5.88	-	-	-	12.5 (3.5-14.0)	3.86 (0.8-4.84)	3.24
	9	24	24	-	-	-	1.98	5.26	5.26	-	-	-	12.5 (3.5-14.0)	3.82 (0.8-4.84)	3.27
	12	12	12	-	-	-	3.50	3.50	3.50	-	-	-	10.5 (3.5-11.5)	2.98 (0.8-3.32)	3.52
	12	12	14	-	-	-	3.50	3.50	4.00	-	-	-	11.0 (3.5-12.1)	3.19 (0.8-3.70)	3.45
	12	12	18	-	-	-	3.50	3.50	5.00	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29
	12	12	24	-	-	-	3.13	3.13	6.24	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23
	12	14	14	-	-	-	3.50	4.00	4.00	-	-	-	11.5 (3.5-12.7)	3.41 (0.8-4.08)	3.37
	12	14	18	-	-	-	3.50	4.00	5.00	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21
	12	14	24	-	-	-	3.00	3.50	6.00	-	-	-	12.5 (3.5-14.0)	3.86 (0.8-4.84)	3.24
	12	18	18	-	-	-	3.12	4.69	4.69	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23
	12	18	24	-	-	-	2.78	4.17	5.55	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25
	12	24	24	-	-	-	2.50	5.00	5.00	-	-	-	12.5 (3.5-14.0)	3.81 (0.8-4.84)	3.28
	14	14	14	-	-	-	4.00	4.00	4.00	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29
	14	14	18	-	-	-	3.80	3.80	4.90	-	-	-	12.5 (3.5-14.0)	3.88 (0.8-4.84)	3.22
	14	14	24	-	-	-	3.37	3.37	5.76	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25
	14	18	18	-	-	-	3.50	4.50	4.50	-	-	-	12.5 (3.5-14.0)	3.86 (0.8-4.84)	3.24
	14	18	24	-	-	-	3.13	4.02	5.35	-	-	-	12.5 (3.5-14.0)	3.83 (0.8-4.84)	3.26
	14	24	24	-	-	-	2.82	4.84	4.84	-	-	-	12.5 (3.5-14.0)	3.80 (0.8-4.84)	3.29
	18	18	18	-	-	-	4.17	4.17	4.17	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25
	18	18	24	-	-	-	3.75	3.75	5.00	-	-	-	12.5 (3.5-14.0)	3.81 (0.8-4.84)	3.28
4-unit connection	7	7	7	14	-	-	2.00	2.00	2.00	4.00	-	-	10.0 (3.5-11.1)	2.50 (0.8-3.13)	4.00
	7	7	7	18	-	-	2.00	2.00	2.00	5.00	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59
	7	7	7	24	-	-	1.94	1.94	1.94	6.68	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	7	7	9	12	-	-	2.00	2.00	2.50	3.50	-	-	10.0 (3.5-11.1)	2.50 (0.8-3.13)	4.00
	7	7	9	14	-	-	2.00	2.00	2.50	4.00	-	-	10.5 (3.5-11.8)	2.79 (0.8-3.51)	3.76
	7	7	9	18	-	-	2.00	2.00	2.50	5.00	-	-	11.5 (3.5-13.0)	3.33 (0.8-4.27)	3.45
	7	7	9	24	-	-	1.86	1.86	2.39	6.39	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	7	7	12	12	-	-	2.00	2.00	3.50	3.50	-	-	11.0 (3.5-12.1)	3.00 (0.8-3.70)	3.67
	7	7	12	14	-	-	2.00	2.00	3.50	4.00	-	-	11.5 (3.5-12.7)	3.27 (0.8-4.08)	3.52
	7	7	12	18	-	-	2.00	2.00	3.50	5.00	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31
	7	7	12	24	-	-	1.75	1.75	3.00	6.00	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	7	7	14	14	-	-	2.00	2.00	4.00	4.00	-	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42
	7	7	14	18	-	-	1.90	1.90	3.80	4.90	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	7	7	14	24	-	-	1.68	1.68	3.37	5.77	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	7	7	18	18	-	-	1.75	1.75	4.50	4.50	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	7	7	18	24	-	-	1.56	1.56	4.02	5.36	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	7	7	24	24	-	-	1.41	1.41	4.84	4.84	-	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41
	7	9	9	9	-	-	2.00	2.50	2.50	2.50	-	-	9.5 (3.5-10.8)	2.31 (0.8-2.93)	4.11
	7	9	9	12	-	-	2.00	2.50	2.50	3.50	-	-	10.5 (3.5-11.8)	2.79 (0.8-3.51)	3.76
	7	9	9	14	-	-	2.00	2.50	2.50	4.00	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59
	7	9	9	18	-	-	2.00	2.50	2.50	5.00	-	-	12.0 (3.5-13.7)	3.57 (0.8-4.65)	3.36
	7	9	9	24	-	-	1.79	2.30	2.30	6.11	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	7	9	12	12	-	-	2.00	2.50	3.50	3.50	-	-	11.5 (3.5-12.7)	3.27 (0.8-4.08)	3.52
	7	9	12	14	-	-	2.00	2.50	3.50	4.00	-	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42
	7	9	12	18	-	-	1.90	2.45	3.26	4.89	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	7	9	12	24	-	-	1.68	2.16	2.88	5.78	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	7	9	14	14	-	-	2.00	2.50	4.00	4.00	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31
	7	9	14	18	-	-	1.82	2.34	3.65	4.69	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	7	9	14	24	-	-	1.62	2.08	3.24	5.56	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	7	9	18	18	-	-	1.68	2.16	4.33	4.33	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	7	9	18	24	-	-	1.51	1.94	3.88	5.17	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39
	7	12	12	12	-	-	1.90	3.50	3.50	3.50	-	-	12.4 (3.5-13.7)	3.69 (0.8-4.65)	3.36
	7	12	12	14	-	-	1.94	3.33	3.33	3.90	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	7	12	12	18	-	-	1.79	3.06	3.06	4.59	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	7	12	12	24	-	-	1.59	2.73	2.73	5.45	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	7	12	14	14	-	-	1.87	3.19	3.72	3.72	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	7	12	14	18	-	-	1.72	2.94	3.43	4.41	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	7	12	14	24	-	-	1.54	2.63	3.07	5.26	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	7	12	18	18	-	-	1.59	2.73	4.09	4.09	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	7	12	18	24	-	-	1.43	2.46	3.69	4.92	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	7	14	14	14	-	-	1.79	3.57	3.57	3.57	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	7	14	14	18	-	-	1.65	3.30	3.30	4.25	-	-	12.5 (3.5-14.0)	3.72 (0.8-4.84)	3.36
	7	14	14	24	-	-	1.48	2.97	2.97	5.08	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39
	7	14	18	18	-	-	1.53	3.07	3.95	3.95	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	7	18	18	18	-	-	1.43	3.69	3.69	3.69	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	9	9	9	9	-	-	2.50	2.50	2.50	2.50	-	-	10.0 (3.5-11.5)	2.59 (0.8-3.32)	3.86
	9	9	9	12	-	-	2.50	2.50	2.50	3.50	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59
	9	9	9	14	-	-	2.50	2.50	2.50	4.00	-	-	11.5 (3.5-13.0)	3.33 (0.8-4.27)	3.45
	9	9	9	18	-	-	2.50	2.50	2.50	5.00	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	9	9	9	24	-	-	2.21	2.21	2.21	5.87	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	9	9	12	12	-	-	2.50	2.50	3.50	3.50	-	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42
	9	9	12	14	-	-	2.50	2.50	3.50	4.00	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31
	9	9	12	18	-	-	2.34	2.34	3.13	4.69	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	9	9	12	24	-	-	2.08	2.08	2.78	5.56	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	9	9	14	14	-	-	2.45	2.45	3.80	3.80	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	9	9	14	18	-	-	2.25	2.25	3.50	4.50	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	9	9	14	24	-	-	2.01	2.01	3.13	5.35	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	9	9	18	18	-	-	2.08	2.08	4.17	4.17	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	9	9	18	24	-	-	1.88	1.88	3.75	4.99	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	9	12	12	12	-	-	2.51	3.33	3.33	3.33	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32
	9	12	12	14	-	-	2.39	3.19	3.19	3.73	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	9	12	12	18	-	-	2.21	2.94	2.94	4.41	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	9	12	12	24	-	-	1.97	2.63	2.63	5.27	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	9	12	14	14	-	-	2.30	3.06	3.57	3.57	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	9	12	14	18	-	-	2.12	2.83	3.30	4.25	-	-	12.5 (3.5-14.0)	3.72 (0.8-4.84)	3.36
	9	12	14	24	-	-	1.91	2.54	2.97	5.08	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39
	9	12	18	18	-	-	1.97	2.63	3.95	3.95	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	9	14	14	14	-	-	2.21	3.43	3.43	3.43	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	9	14	14	18	-	-	2.05	3.18	3.18	4.09	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	9	14	14	24	-	-	1.84	2.87	2.87	4.92	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	9	14	18	18	-	-	1.91	2.97	3.81	3.81	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39
4-unit connection	12	12	12	12	-	-	3.13	3.13	3.13	3.13	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33
	12	12	12	14	-	-	3.00	3.00	3.00	3.50	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34
	12	12	12	18	-	-	2.78	2.78	2.78	4.16	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	12	12	12	24	-	-	2.50	2.50	2.50	5.00	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	12	12	14	14	-	-	2.88	2.88	3.37	3.37	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35
	12	12	14	18	-	-	2.68	2.68	3.13	4.01	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38
	12	12	14	24	-	-	2.42	2.42	2.82	4.84	-	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41
	12	12	18	18	-	-	2.50	2.50	3.75	3.75	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40
	12	14	14	14	-	-	2.78	3.24	3.24	3.24	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37
	12	14	14	18	-	-	2.59	3.02	3.02	3.87	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39
	12	14	18	18	-	-	2.42	2.82	3.63	3.63	-	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41
5-unit connection	7	7	7	7	7	-	2.00	2.00	2.00	2.00	2.00	-	10.0 (3.5-11.1)	2.44 (0.8-3.13)	4.10
	7	7	7	7	9	-	2.00	2.00	2.00	2.00	2.50	-	10.5 (3.5-11.8)	2.72 (0.8-3.51)	3.86
	7	7	7	7	12	-	2.00	2.00	2.00	2.00	3.50	-	11.5 (3.5-12.7)	3.18 (0.8-4.08)	3.62
	7	7	7	7	14	-	2.00	2.00	2.00	2.00	4.00	-	12.0 (3.5-13.4)	3.41 (0.8-4.46)	3.52
	7	7	7	7	18	-	1.90	1.90	1.90	1.90	4.90	-	12.5 (3.5-14.0)	3.65 (0.8-4.84)	3.42
	7	7	7	7	24	-	1.68	1.68	1.68	1.68	5.78	-	12.5 (3.5-14.0)	3.61 (0.8-4.84)	3.46
	7	7	7	9	9	-	2.00	2.00	2.00	2.50	2.50	-	11.0 (3.5-12.4)	2.98 (0.8-3.89)	3.69
	7	7	7	9	12	-	2.00	2.00	2.00	2.50	3.50	-	12.0 (3.5-13.4)	3.41 (0.8-4.46)	3.52
	7	7	7	9	14	-	2.00	2.00	2.00	2.50	4.00	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41
	7	7	7	9	18	-	1.82	1.82	1.82	2.34	4.70	-	12.5 (3.5-14.0)	3.64 (0.8-4.84)	3.43
	7	7	7	9	24	-	1.62	1.62	1.62	2.08	5.56	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	7	7	12	12	-	1.94	1.94	1.94	3.34	3.34	-	12.5 (3.5-14.0)	3.65 (0.8-4.84)	3.42
	7	7	7	12	14	-	1.86	1.86	1.86	3.19	3.73	-	12.5 (3.5-14.0)	3.64 (0.8-4.84)	3.43
	7	7	7	12	18	-	1.72	1.72	1.72	2.94	4.40	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	7	7	7	12	24	-	1.54	1.54	1.54	2.63	5.25	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	7	7	7	14	14	-	1.79	1.79	1.79	3.57	3.57	-	12.5 (3.5-14.0)	3.63 (0.8-4.84)	3.44
	7	7	7	14	18	-	1.65	1.65	1.65	3.30	4.25	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	7	7	14	24	-	1.48	1.48	1.48	2.97	5.09	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	7	7	18	18	-	1.54	1.54	1.54	3.94	3.94	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	7	7	9	9	9	-	2.00	2.00	2.50	2.50	2.50	-	11.5 (3.5-13.0)	3.24 (0.8-4.27)	3.55
	7	7	9	9	12	-	2.00	2.00	2.50	2.50	3.50	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41
	7	7	9	9	14	-	1.90	1.90	2.45	2.45	3.80	-	12.5 (3.5-14.0)	3.65 (0.8-4.84)	3.42
	7	7	9	9	18	-	1.75	1.75	2.25	2.25	4.50	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	7	7	9	9	24	-	1.56	1.56	2.01	2.01	5.36	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	7	9	12	12	-	1.86	1.86	2.40	3.19	3.19	-	12.5 (3.5-14.0)	3.64 (0.8-4.84)	3.43
	7	7	9	12	14	-	1.79	1.79	2.30	3.06	3.56	-	12.5 (3.5-14.0)	3.63 (0.8-4.84)	3.44
	7	7	9	12	18	-	1.65	1.65	2.12	2.83	4.25	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	7	9	12	24	-	1.48	1.48	1.91	2.54	5.09	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	7	9	14	14	-	1.72	1.72	2.20	3.43	3.43	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	7	7	9	14	18	-	1.59	1.59	2.05	3.18	4.09	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	7	9	14	24	-	1.43	1.43	1.84	2.87	4.93	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	7	9	18	18	-	1.48	1.48	1.92	3.81	3.81	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	7	12	12	12	-	1.75	1.75	3.00	3.00	3.00	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	7	7	12	12	14	-	1.68	1.68	2.88	2.88	3.38	-	12.5 (3.5-14.0)	3.61 (0.8-4.84)	3.46
	7	7	12	12	18	-	1.56	1.56	2.68	2.68	4.02	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	7	12	12	24	-	1.41	1.41	2.42	2.42	4.84	-	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	7	12	14	14	-	1.62	1.62	2.78	3.24	3.24	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	7	12	14	18	-	1.51	1.51	2.59	3.02	3.87	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	7	12	18	18	-	1.41	1.41	2.42	3.63	3.63	-	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	7	14	14	14	-	1.56	1.56	3.13	3.13	3.13	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	7	14	14	18	-	1.46	1.46	2.92	2.92	3.74	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	9	9	9	9	-	2.00	2.50	2.50	2.50	2.50	-	12.0 (3.5-13.7)	3.47 (0.8-4.65)	3.46
	7	9	9	9	12	-	1.90	2.45	2.45	2.45	3.25	-	12.5 (3.5-14.0)	3.65 (0.8-4.84)	3.42
	7	9	9	9	14	-	1.82	2.34	2.34	2.34	3.66	-	12.5 (3.5-14.0)	3.64 (0.8-4.84)	3.43
	7	9	9	9	18	-	1.68	2.16	2.16	2.16	4.34	-	12.5 (3.5-14.0)	3.61 (0.8-4.84)	3.46
	7	9	9	9	24	-	1.51	1.94	1.94	1.94	5.17	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	9	9	12	12	-	1.78	2.30	2.30	3.06	3.06	-	12.5 (3.5-14.0)	3.63 (0.8-4.84)	3.44
	7	9	9	12	14	-	1.72	2.21	2.21	2.94	3.42	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	7	9	9	12	18	-	1.59	2.05	2.05	2.73	4.08	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	9	9	12	24	-	1.43	1.84	1.84	2.46	4.93	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	9	9	14	14	-	1.66	2.12	2.12	3.30	3.30	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	9	9	14	18	-	1.54	1.97	1.97	3.07	3.95	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	7	9	9	18	18	-	1.44	1.84	1.84	3.69	3.69	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	9	12	12	12	-	1.69	2.17	2.88	2.88	2.88	-	12.5 (3.5-14.0)	3.61 (0.8-4.84)	3.46
	7	9	12	12	14	-	1.62	2.08	2.78	2.78	3.24	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	7	9	12	12	18	-	1.51	1.94	2.59	2.59	3.87	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	9	12	14	14	-	1.55	2.01	2.68	3.13	3.13	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	9	12	14	18	-	1.46	1.88	2.50	2.92	3.74	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	9	14	14	14	-	1.50	1.94	3.02	3.02	3.02	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	9	14	14	18	-	1.41	1.81	2.82	2.82	3.64	-	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	12	12	12	12	-	1.58	2.73	2.73	2.73	2.73	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	7	12	12	12	14	-	1.54	2.63	2.63	2.63	3.07	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	7	12	12	12	18	-	1.43	2.46	2.46	2.46	3.69	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	12	12	14	14	-	1.48	2.54	2.54	2.97	2.97	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	12	14	14	14	-	1.43	2.46	2.87	2.87	2.87	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	9	9	9	9	9	-	2.50	2.50	2.50	2.50	2.50	-	12.5 (3.5-14.0)	3.65 (0.8-4.84)	3.42
	9	9	9	9	12	-	2.34	2.34	2.34	2.34	3.14	-	12.5 (3.5-14.0)	3.64 (0.8-4.84)	3.43
	9	9	9	9	14	-	2.25	2.25	2.25	2.25	3.50	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	9	9	9	9	18	-	2.08	2.08	2.08	2.08	4.18	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	9	9	9	9	24	-	1.88	1.88	1.88	1.88	4.98	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	9	9	9	12	12	-	2.21	2.21	2.21	2.94	2.94	-	12.5 (3.5-14.0)	3.62 (0.8-4.84)	3.45
	9	9	9	12	14	-	2.12	2.12	2.12	2.83	3.31	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	9	9	9	12	18	-	1.97	1.97	1.97	2.63	3.96	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	9	9	9	14	14	-	2.05	2.05	2.05	3.18	3.18	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	9	9	9	14	18	-	1.91	1.91	1.91	2.97	3.80	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	9	9	12	12	12	-	2.08	2.08	2.78	2.78	2.78	-	12.5 (3.5-14.0)	3.60 (0.8-4.84)	3.47
	9	9	12	12	14	-	2.01	2.01	2.68	2.68	3.12	-	12.5 (3.5-14.0)	3.59 (0.8-4.84)	3.48
	9	9	12	12	18	-	1.88	1.88	2.50	2.50	3.74	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	9	9	12	14	14	-	1.94	1.94	2.58	3.02	3.02	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	9	9	12	14	18	-	1.81	1.81	2.42	2.82	3.64	-	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	9	9	14	14	14	-	1.87	1.87	2.92	2.92	2.92	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	9	12	12	12	12	-	1.98	2.63	2.63	2.63	2.63	-	12.5 (3.5-14.0)	3.58 (0.8-4.84)	3.49
	9	12	12	12	14	-	1.91	2.54	2.54	2.54	2.97	-	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	9	12	12	14	14	-	1.84	2.46	2.46	2.87	2.87	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	12	12	12	12	12	-	2.50	2.50	2.50	2.50	2.50	-	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	12	12	12	12	14	-	2.42	2.42	2.42	2.42	2.82	-	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •2 or more indoor units should be connected.
- •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 62000Btu from 34000Btu.

6-unit Multi-split Multi Combination Table-Cooling/Heating

6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Unit						Cooling Operation								
							Cooling Capacity							Input Power (min-max)	EER
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (min-max)		
							kW	kW	kW	kW	kW	kW	kW	kW	
6-unit connection	7	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	2.00	12.0 (3.5-13.4)	3.32 (0.8-4.46)	3.61
	7	7	7	7	7	9	2.00	2.00	2.00	2.00	2.00	2.50	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
	7	7	7	7	7	12	1.86	1.86	1.86	1.86	1.86	3.20	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	7	7	7	7	14	1.79	1.79	1.79	1.79	1.79	3.55	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
	7	7	7	7	7	18	1.65	1.65	1.65	1.65	1.65	4.25	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	7	7	7	24	1.48	1.48	1.48	1.48	1.48	5.10	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	7	7	9	9	1.90	1.90	1.90	1.90	2.45	2.45	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
	7	7	7	7	9	12	1.79	1.79	1.79	1.79	2.29	3.05	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
	7	7	7	7	9	14	1.72	1.72	1.72	1.72	2.20	3.42	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
	7	7	7	7	9	18	1.59	1.59	1.59	1.59	2.05	4.09	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	7	7	9	24	1.43	1.43	1.43	1.43	1.85	4.93	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	7	7	12	12	1.68	1.68	1.68	1.68	2.89	2.89	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
	7	7	7	7	12	14	1.62	1.62	1.62	1.62	2.78	3.24	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	7	7	12	18	1.51	1.51	1.51	1.51	2.59	3.87	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	7	7	14	14	1.56	1.56	1.56	1.56	3.13	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	7	7	14	18	1.46	1.46	1.46	1.46	2.92	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	7	9	9	9	1.82	1.82	1.82	2.34	2.34	2.34	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	7	7	9	9	12	1.72	1.72	1.72	2.21	2.21	2.92	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
	7	7	7	9	9	14	1.65	1.65	1.65	2.12	2.12	3.31	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	7	9	9	18	1.54	1.54	1.54	1.97	1.97	3.94	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	7	9	12	12	1.62	1.62	1.62	2.08	2.78	2.78	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	7	9	12	14	1.56	1.56	1.56	2.01	2.68	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	7	9	12	18	1.46	1.46	1.46	1.88	2.50	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	7	9	14	14	1.51	1.51	1.51	1.93	3.02	3.02	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	7	12	12	12	1.54	1.54	1.54	2.63	2.63	2.63	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	7	12	12	14	1.48	1.48	1.48	2.54	2.54	2.98	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	7	12	14	14	1.43	1.43	1.43	2.47	2.87	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	9	9	9	9	1.75	1.75	2.25	2.25	2.25	2.25	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
	7	7	9	9	9	12	1.65	1.65	2.12	2.12	2.12	2.84	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	9	9	9	14	1.59	1.59	2.05	2.05	2.05	3.17	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	9	9	9	18	1.48	1.48	1.91	1.91	1.91	3.81	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	9	9	12	12	1.56	1.56	2.01	2.01	2.68	2.68	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	9	9	12	14	1.51	1.51	1.94	1.94	2.59	3.01	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	9	9	12	18	1.41	1.41	1.81	1.81	2.42	3.64	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
	7	7	9	9	14	14	1.46	1.46	1.88	1.88	2.91	2.91	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	9	12	12	12	1.48	1.48	1.92	2.54	2.54	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	9	12	12	14	1.43	1.43	1.85	2.46	2.46	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	12	12	12	12	1.41	1.41	2.42	2.42	2.42	2.42	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
	7	9	9	9	9	9	1.70	2.16	2.16	2.16	2.16	2.16	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
	7	9	9	9	9	12	1.59	2.05	2.05	2.05	2.05	2.71	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	9	9	9	9	14	1.54	1.97	1.97	1.97	1.97	3.08	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	9	9	9	12	12	1.50	1.94	1.94	1.94	2.59	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	9	9	9	12	14	1.46	1.88	1.88	1.88	2.50	2.90	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	9	9	12	12	12	1.44	1.84	1.84	2.46	2.46	2.46	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	9	9	9	9	9	9	2.08	2.08	2.08	2.08	2.08	2.08	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	9	9	9	9	9	12	1.97	1.97	1.97	1.97	1.97	2.65	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	9	9	9	9	12	12	1.88	1.88	1.88	1.88	2.49	2.49	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60

Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 62000Btu from 34000Btu.

6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Unit						Heating Operation								
							Heating Capacity							Input Power (min-max)	COP
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (min-max)		
							kW	kW	kW	kW	kW	kW	kW	kW	
2 Units	12	24	-	-	-	-	4.07	8.13	-	-	-	-	12.2 (3.5-13.1)	3.41 (0.7-3.54)	3.58
	14	24	-	-	-	-	4.61	7.89	-	-	-	-	12.5 (3.5-13.8)	3.56 (0.7-3.76)	3.51
	18	18	-	-	-	-	6.10	6.10	-	-	-	-	12.2 (3.5-13.1)	3.41 (0.7-3.54)	3.58
	18	24	-	-	-	-	5.66	7.54	-	-	-	-	13.2 (3.5-15.3)	3.78 (0.7-4.20)	3.49
	24	24	-	-	-	-	6.75	6.75	-	-	-	-	13.5 (3.5-16.0)	3.89 (0.7-4.41)	3.47
3-unit connection	7	7	24	-	-	-	2.30	2.30	7.90	-	-	-	12.5 (3.5-13.8)	3.43 (0.7-3.76)	3.64
	7	9	18	-	-	-	2.35	3.02	6.03	-	-	-	11.4 (3.5-12.4)	2.98 (0.7-3.33)	3.83
	7	9	24	-	-	-	2.24	2.88	7.68	-	-	-	12.8 (3.5-14.5)	3.54 (0.7-3.98)	3.62
	7	12	18	-	-	-	2.33	3.99	5.98	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
	7	12	24	-	-	-	2.17	3.71	7.42	-	-	-	13.3 (3.5-15.6)	3.69 (0.7-4.30)	3.60
	7	14	14	-	-	-	2.40	4.80	4.80	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
	7	14	18	-	-	-	2.28	4.56	5.86	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
	7	14	24	-	-	-	2.10	4.20	7.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	7	18	18	-	-	-	2.16	5.57	5.57	-	-	-	13.3 (3.5-15.6)	3.69 (0.7-4.30)	3.60
	7	18	24	-	-	-	1.93	4.96	6.61	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	7	24	24	-	-	-	1.72	5.89	5.89	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	9	9	18	-	-	-	3.05	3.05	6.10	-	-	-	12.2 (3.5-13.1)	3.28 (0.7-3.54)	3.72
	9	9	24	-	-	-	2.83	2.83	7.54	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	9	12	14	-	-	-	3.09	4.11	4.80	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
	9	12	18	-	-	-	2.93	3.91	5.86	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
	9	12	24	-	-	-	2.70	3.60	7.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	9	14	14	-	-	-	3.00	4.65	4.65	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
	9	14	18	-	-	-	2.85	4.44	5.71	-	-	-	13.0 (3.5-14.9)	3.59 (0.7-4.09)	3.62
	9	14	24	-	-	-	2.59	4.02	6.89	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	9	18	18	-	-	-	2.70	5.40	5.40	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	9	18	24	-	-	-	2.38	4.76	6.36	-	-	-	13.5 (3.5-16.0)	3.73 (0.7-4.41)	3.62
	9	24	24	-	-	-	2.14	5.68	5.68	-	-	-	13.5 (3.5-16.0)	3.71 (0.7-4.41)	3.64
	12	12	12	-	-	-	4.07	4.07	4.07	-	-	-	12.2 (3.5-13.1)	3.28 (0.7-3.54)	3.72
	12	12	14	-	-	-	3.94	3.95	4.61	-	-	-	12.5 (3.5-13.8)	3.43 (0.7-3.76)	3.64
	12	12	18	-	-	-	3.77	3.77	5.66	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	12	12	24	-	-	-	3.38	3.38	6.74	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	14	14	-	-	-	3.84	4.48	4.48	-	-	-	12.8 (3.5-14.5)	3.54 (0.7-3.98)	3.62
	12	14	18	-	-	-	3.68	4.30	5.52	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	12	14	24	-	-	-	3.24	3.78	6.48	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	18	18	-	-	-	3.38	5.06	5.06	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	18	24	-	-	-	3.00	4.50	6.00	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	12	24	24	-	-	-	2.70	5.40	5.40	-	-	-	13.5 (3.5-16.0)	3.71 (0.7-4.41)	3.64
	14	14	14	-	-	-	4.40	4.40	4.40	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	14	14	18	-	-	-	4.11	4.11	5.28	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	14	14	24	-	-	-	3.63	3.63	6.24	-	-	-	13.5 (3.5-16.0)	3.73 (0.7-4.41)	3.62
	14	18	18	-	-	-	3.78	4.86	4.86	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	14	18	24	-	-	-	3.38	4.34	5.78	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	14	24	24	-	-	-	3.04	5.23	5.23	-	-	-	13.5 (3.5-16.0)	3.70 (0.7-4.41)	3.65
	18	18	18	-	-	-	4.50	4.50	4.50	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	18	18	24	-	-	-	4.05	4.05	5.40	-	-	-	13.5 (3.5-16.0)	3.71 (0.7-4.41)	3.64
4-unit connection	7	7	7	14	-	-	2.40	2.40	2.40	4.80	-	-	12.0 (3.5-12.7)	2.98 (0.7-3.44)	4.03
	7	7	7	18	-	-	2.28	2.28	2.28	5.86	-	-	12.7 (3.5-14.2)	3.35 (0.7-3.87)	3.79
	7	7	7	24	-	-	2.10	2.10	2.10	7.20	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	7	9	12	-	-	2.40	2.40	3.09	4.11	-	-	12.0 (3.5-12.7)	2.98 (0.7-3.44)	4.03
	7	7	9	14	-	-	2.33	2.33	2.99	4.65	-	-	12.3 (3.5-13.5)	3.19 (0.7-3.65)	3.86
	7	7	9	18	-	-	2.22	2.22	2.85	5.71	-	-	13.0 (3.5-14.9)	3.46 (0.7-4.09)	3.76
	7	7	9	24	-	-	2.01	2.01	2.59	6.89	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	7	12	12	-	-	2.30	2.30	3.95	3.95	-	-	12.5 (3.5-13.8)	3.28 (0.7-3.76)	3.81
	7	7	12	14	-	-	2.24	2.24	3.84	4.48	-	-	12.8 (3.5-14.5)	3.41 (0.7-3.98)	3.75
	7	7	12	18	-	-	2.15	2.15	3.68	5.52	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	7	12	24	-	-	1.89	1.89	3.24	6.48	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	7	14	14	-	-	2.20	2.20	4.40	4.40	-	-	13.2 (3.5-15.3)	3.52 (0.7-4.20)	3.75
	7	7	14	18	-	-	2.05	2.05	4.11	5.29	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	7	14	24	-	-	1.82	1.82	3.63	6.23	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	7	7	18	18	-	-	1.89	1.89	4.86	4.86	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	7	18	24	-	-	1.69	1.69	4.34	5.78	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	7	7	24	24	-	-	1.52	1.52	5.23	5.23	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
	7	9	9	9	-	-	2.34	3.02	3.02	3.02	-	-	11.4 (3.5-12.4)	2.82 (0.7-3.33)	4.04
	7	9	9	12	-	-	2.33	2.99	2.99	3.99	-	-	12.3 (3.5-13.5)	3.19 (0.7-3.65)	3.86
	7	9	9	14	-	-	2.28	2.93	2.93	4.56	-	-	12.7 (3.5-14.2)	3.35 (0.7-3.87)	3.79
	7	9	9	18	-	-	2.17	2.78	2.78	5.57	-	-	13.3 (3.5-15.6)	3.56 (0.7-4.30)	3.74
	7	9	9	24	-	-	1.93	2.48	2.48	6.61	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	9	12	12	-	-	2.24	2.88	3.84	3.84	-	-	12.8 (3.5-14.5)	3.41 (0.7-3.98)	3.75
	7	9	12	14	-	-	2.20	2.83	3.77	4.40	-	-	13.2 (3.5-15.3)	3.52 (0.7-4.20)	3.75
	7	9	12	18	-	-	2.05	2.64	3.52	5.29	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	9	12	24	-	-	1.82	2.34	3.12	6.22	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	7	9	14	14	-	-	2.15	2.75	4.30	4.30	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	9	14	18	-	-	1.97	2.53	3.94	5.06	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	9	14	24	-	-	1.75	2.25	3.50	6.00	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	7	9	18	18	-	-	1.82	2.34	4.67	4.67	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	7	9	18	24	-	-	1.63	2.09	4.19	5.59	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	7	12	12	12	-	-	2.17	3.71	3.71	3.71	-	-	13.3 (3.5-15.6)	3.56 (0.7-4.30)	3.74
	7	12	12	14	-	-	2.10	3.60	3.60	4.20	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	7	12	12	18	-	-	1.93	3.31	3.31	4.95	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	12	12	24	-	-	1.72	2.95	2.95	5.88	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	7	12	14	14	-	-	2.01	3.45	4.02	4.02	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	12	14	18	-	-	1.85	3.18	3.71	4.76	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	7	12	14	24	-	-	1.66	2.84	3.32	5.68	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	7	12	18	18	-	-	1.72	2.94	4.42	4.42	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	7	12	18	24	-	-	1.55	2.66	3.98	5.31	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
	7	14	14	14	-	-	1.92	3.86	3.86	3.86	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	7	14	14	18	-	-	1.78	3.57	3.57	4.58	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	7	14	14	24	-	-	1.60	3.20	3.20	5.50	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	7	14	18	18	-	-	1.66	3.32	4.26	4.26	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	7	18	18	18	-	-	1.56	3.98	3.98	3.98	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
	9	9	9	9	-	-	3.05	3.05	3.05	3.05	-	-	12.2 (3.5-13.1)	3.09 (0.7-3.54)	3.95
	9	9	9	12	-	-	2.93	2.93	2.93	3.91	-	-	12.7 (3.5-14.2)	3.35 (0.7-3.87)	3.79
	9	9	9	14	-	-	2.85	2.85	2.85	4.45	-	-	13.0 (3.5-14.9)	3.46 (0.7-4.09)	3.76
	9	9	9	18	-	-	2.70	2.70	2.70	5.40	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	9	9	9	24	-	-	2.38	2.38	2.38	6.36	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	9	9	12	12	-	-	2.83	2.83	3.77	3.77	-	-	13.2 (3.5-15.3)	3.52 (0.7-4.20)	3.75
	9	9	12	14	-	-	2.76	2.76	3.68	4.30	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	9	9	12	18	-	-	2.53	2.53	3.38	5.06	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	9	9	12	24	-	-	2.25	2.25	3.00	6.00	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	9	9	14	14	-	-	2.64	2.64	4.11	4.11	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	9	9	14	18	-	-	2.43	2.43	3.78	4.86	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	9	9	14	24	-	-	2.17	2.17	3.38	5.78	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	9	9	18	18	-	-	2.25	2.25	4.50	4.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	9	9	18	24	-	-	2.03	2.03	4.05	5.39	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	9	12	12	12	-	-	2.70	3.60	3.60	3.60	-	-	13.5 (3.5-16.0)	3.61 (0.7-4.41)	3.74
	9	12	12	14	-	-	2.59	3.45	3.45	4.01	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	9	12	12	18	-	-	2.38	3.18	3.18	4.76	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	9	12	12	24	-	-	2.13	2.84	2.84	5.69	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	9	12	14	14	-	-	2.48	3.30	3.86	3.86	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	9	12	14	18	-	-	2.29	3.06	3.57	4.58	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	9	12	14	24	-	-	2.06	2.75	3.20	5.49	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	9	12	18	18	-	-	2.13	2.85	4.26	4.26	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	9	14	14	14	-	-	2.37	3.71	3.71	3.71	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	9	14	14	18	-	-	2.21	3.44	3.44	4.41	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	9	14	14	24	-	-	1.99	3.10	3.10	5.31	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
	9	14	18	18	-	-	2.06	3.20	4.12	4.12	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78

6-unit Multi-split Combination Table–Heating

6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Unit						Heating Operation								
							Heating Capacity							Input Power (min-max)	COP
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (min-max)		
							kW	kW	kW	kW	kW	kW	kW	kW	
4-unit connection	12	12	12	12	-	-	3.38	3.38	3.38	3.38	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	12	12	12	14	-	-	3.24	3.24	3.24	3.78	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.41)	3.75
	12	12	12	18	-	-	3.00	3.00	3.00	4.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	12	12	12	24	-	-	2.70	2.70	2.70	5.40	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	12	12	14	14	-	-	3.12	3.12	3.63	3.63	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.41)	3.76
	12	12	14	18	-	-	2.89	2.89	3.38	4.34	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	12	12	14	24	-	-	2.61	2.61	3.05	5.23	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
	12	12	18	18	-	-	2.70	2.70	4.05	4.05	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	12	14	14	14	-	-	3.00	3.50	3.50	3.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.41)	3.77
	12	14	14	18	-	-	2.79	3.26	3.26	4.19	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.78
	12	14	18	18	-	-	2.61	3.05	3.92	3.92	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.41)	3.79
5-unit connection	7	7	7	7	7	-	2.40	2.40	2.40	2.40	2.40	-	12.0 (3.5-12.7)	2.82 (0.7-3.44)	4.26
	7	7	7	7	9	-	2.33	2.33	2.33	2.33	2.98	-	12.3 (3.5-13.5)	3.03 (0.7-3.65)	4.06
	7	7	7	7	12	-	2.24	2.24	2.24	2.24	3.84	-	12.8 (3.5-14.5)	3.29 (0.7-3.98)	3.89
	7	7	7	7	14	-	2.20	2.20	2.20	2.20	4.40	-	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88
	7	7	7	7	18	-	2.05	2.05	2.05	2.05	5.30	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	7	7	7	24	-	1.82	1.82	1.82	1.82	6.22	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	7	9	9	-	2.28	2.28	2.28	2.93	2.93	-	12.7 (3.5-14.2)	3.23 (0.7-3.87)	3.93
	7	7	7	9	12	-	2.20	2.20	2.20	2.83	3.77	-	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88
	7	7	7	9	14	-	2.15	2.15	2.15	2.76	4.29	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	7	7	9	18	-	1.97	1.97	1.97	2.53	5.06	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	7	9	24	-	1.75	1.75	1.75	2.25	6.00	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	7	12	12	-	2.10	2.10	2.10	3.60	3.60	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	7	7	12	14	-	2.01	2.01	2.01	3.45	4.02	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	7	12	18	-	1.85	1.85	1.85	3.18	4.77	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	7	12	24	-	1.66	1.66	1.66	2.84	5.68	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	7	14	14	-	1.93	1.93	1.93	3.86	3.86	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	7	14	18	-	1.78	1.78	1.78	3.57	4.59	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	7	14	24	-	1.60	1.60	1.60	3.20	5.50	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	7	18	18	-	1.66	1.66	1.66	4.26	4.26	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	9	9	9	-	2.22	2.22	2.85	2.85	2.85	-	13.0 (3.5-14.9)	3.34 (0.7-4.09)	3.89
	7	7	9	9	12	-	2.15	2.15	2.76	2.76	3.68	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	7	9	9	14	-	2.05	2.05	2.64	2.64	4.12	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	7	9	9	18	-	1.89	1.89	2.43	2.43	4.86	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	9	9	24	-	1.69	1.69	2.17	2.17	5.78	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	9	12	12	-	2.01	2.01	2.58	3.45	3.45	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	9	12	14	-	1.93	1.93	2.48	3.31	3.85	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	9	12	18	-	1.78	1.78	2.29	3.06	4.59	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	9	12	24	-	1.60	1.60	2.06	2.75	5.49	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	9	14	14	-	1.85	1.85	2.38	3.71	3.71	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	9	14	18	-	1.72	1.72	2.21	3.44	4.41	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	9	14	24	-	1.55	1.55	1.99	3.10	5.31	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	7	9	18	18	-	1.60	1.60	2.06	4.12	4.12	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	12	12	12	-	1.89	1.89	3.24	3.24	3.24	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	7	12	12	14	-	1.82	1.82	3.12	3.12	3.62	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	7	12	12	18	-	1.69	1.69	2.89	2.89	4.34	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	12	12	24	-	1.52	1.52	2.61	2.61	5.24	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	7	12	14	14	-	1.75	1.75	3.00	3.50	3.50	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	12	14	18	-	1.63	1.63	2.79	3.26	4.19	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	7	12	18	18	-	1.52	1.52	2.62	3.92	3.92	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	7	14	14	14	-	1.68	1.68	3.38	3.38	3.38	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	7	14	14	18	-	1.58	1.58	3.15	3.15	4.04	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	9	9	9	-	2.18	2.78	2.78	2.78	2.78	-	13.3 (3.5-15.6)	3.44 (0.7-4.30)	3.87
	7	9	9	9	12	-	2.05	2.64	2.64	2.64	3.53	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	7	9	9	9	14	-	1.97	2.53	2.53	2.53	3.94	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	9	9	9	18	-	1.82	2.34	2.34	2.34	4.66	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	9	9	9	24	-	1.63	2.09	2.09	2.09	5.60	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	9	12	12	-	1.92	2.48	2.48	3.31	3.31	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	7	9	9	12	14	-	1.85	2.38	2.38	3.18	3.71	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	9	9	12	18	-	1.72	2.21	2.21	2.95	4.41	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	9	9	12	24	-	1.55	1.99	1.99	2.66	5.31	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	9	9	14	14	-	1.78	2.29	2.29	3.57	3.57	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	9	9	14	18	-	1.66	2.13	2.13	3.32	4.26	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	9	18	18	-	1.56	1.99	1.99	3.98	3.98	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	9	12	12	12	-	1.82	2.32	3.12	3.12	3.12	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	7	9	12	12	14	-	1.75	2.25	3.00	3.00	3.50	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	9	12	12	18	-	1.63	2.09	2.79	2.79	4.20	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	12	14	14	-	1.69	2.17	2.88	3.38	3.38	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	9	12	14	18	-	1.58	2.03	2.70	3.15	4.04	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	14	14	14	-	1.63	2.09	3.26	3.26	3.26	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	9	14	14	18	-	1.52	1.96	3.05	3.05	3.92	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	12	12	12	12	-	1.70	2.95	2.95	2.95	2.95	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	7	12	12	12	14	-	1.66	2.84	2.84	2.84	3.32	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	12	12	12	18	-	1.55	2.66	2.66	2.66	3.97	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	7	12	12	14	14	-	1.60	2.75	2.75	3.20	3.20	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	7	12	14	14	14	-	1.55	2.65	3.10	3.10	3.10	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	9	9	9	9	9	-	2.70	2.70	2.70	2.70	2.70	-	13.5 (3.5-16.0)	3.49 (0.7-4.41)	3.87
	9	9	9	9	12	-	2.53	2.53	2.53	2.53	3.38	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	9	9	9	9	14	-	2.43	2.43	2.43	2.43	3.78	-	13.5 (3.5-16.0)	3.48 (0.7-4.41)	3.88
	9	9	9	9	18	-	2.25	2.25	2.25	2.25	4.50	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	9	9	9	9	24	-	2.03	2.03	2.03	2.03	5.38	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	9	9	12	12	-	2.38	2.38	2.38	3.18	3.18	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	9	9	9	12	14	-	2.29	2.29	2.29	3.06	3.57	-	13.5 (3.5-16.0)	3.47 (0.7-4.41)	3.89
	9	9	9	12	18	-	2.13	2.13	2.13	2.84	4.27	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	9	9	14	14	-	2.21	2.21	2.21	3.44	3.44	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	9	9	9	14	18	-	2.06	2.06	2.06	3.20	4.12	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	9	12	12	12	-	2.25	2.25	3.00	3.00	3.00	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	9	9	12	12	14	-	2.17	2.17	2.89	2.89	3.38	-	13.5 (3.5-16.0)	3.46 (0.7-4.41)	3.90
	9	9	12	12	18	-	2.03	2.03	2.70	2.70	4.04	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	9	12	14	14	-	2.09	2.09	2.80	3.26	3.26	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	9	12	14	18	-	1.96	1.96	2.61	3.05	3.92	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	9	9	14	14	14	-	2.03	2.03	3.15	3.15	3.15	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	12	12	12	12	-	2.14	2.84	2.84	2.84	2.84	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	12	12	12	14	-	2.06	2.75	2.75	2.75	3.19	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	9	12	12	14	14	-	1.98	2.66	2.66	3.10	3.10	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92
	12	12	12	12	12	-	2.70	2.70	2.70	2.70	2.70	-	13.5 (3.5-16.0)	3.45 (0.7-4.41)	3.91
	12	12	12	12	14	-	2.61	2.61	2.61	2.61	3.06	-	13.5 (3.5-16.0)	3.44 (0.7-4.41)	3.92

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •2 or more indoor units should be connected.
- •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Unit						Heating Operation								
							Heating Capacity							Input Power (min-max)	COP
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (min-max)		
							kW	kW	kW	kW	kW	kW	kW	kW	
6-unit connection	7	7	7	7	7	7	2.20	2.20	2.20	2.20	2.20	2.20	13.2 (3.5-15.3)	3.28 (0.7-4.20)	4.02
	7	7	7	7	7	9	2.15	2.15	2.15	2.15	2.15	2.75	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	12	2.01	2.01	2.01	2.01	2.01	3.45	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	14	1.93	1.93	1.93	1.93	1.93	3.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	18	1.78	1.78	1.78	1.78	1.78	4.60	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	24	1.60	1.60	1.60	1.60	1.60	5.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	9	2.05	2.05	2.05	2.05	2.65	2.65	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	12	1.93	1.93	1.93	1.93	2.48	3.30	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	14	1.85	1.85	1.85	1.85	2.38	3.72	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	18	1.72	1.72	1.72	1.72	2.21	4.41	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	24	1.55	1.55	1.55	1.55	1.99	5.31	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	12	1.82	1.82	1.82	1.82	3.11	3.11	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	14	1.75	1.75	1.75	1.75	3.00	3.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	18	1.63	1.63	1.63	1.63	2.79	4.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	14	14	1.69	1.69	1.69	1.69	3.37	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	14	18	1.58	1.58	1.58	1.58	3.15	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	9	1.97	1.97	1.97	2.53	2.53	2.53	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	12	1.85	1.85	1.85	2.38	2.38	3.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	14	1.78	1.78	1.78	2.29	2.29	3.58	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	18	1.66	1.66	1.66	2.13	2.13	4.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	12	1.75	1.75	1.75	2.25	3.00	3.00	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	14	1.69	1.69	1.69	2.17	2.89	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	18	1.58	1.58	1.58	2.03	2.70	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	14	14	1.63	1.63	1.63	2.09	3.26	3.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	12	12	1.66	1.66	1.66	2.84	2.84	2.84	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	12	14	1.60	1.60	1.60	2.75	2.75	3.20	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	14	14	1.55	1.55	1.55	2.65	3.10	3.10	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	9	1.89	1.89	2.43	2.43	2.43	2.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	12	1.78	1.78	2.29	2.29	2.29	3.07	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	14	1.72	1.72	2.21	2.21	2.21	3.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	18	1.60	1.60	2.06	2.06	2.06	4.12	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	12	1.69	1.69	2.17	2.17	2.89	2.89	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	14	1.63	1.63	2.09	2.09	2.79	3.27	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	18	1.52	1.52	1.96	1.96	2.61	3.93	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	14	14	1.58	1.58	2.03	2.03	3.14	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	12	12	12	1.60	1.60	2.05	2.75	2.75	2.75	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	12	12	14	1.55	1.55	1.99	2.66	2.66	3.09	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	12	12	12	12	1.53	1.53	2.61	2.61	2.61	2.61	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	9	1.80	2.34	2.34	2.34	2.34	2.34	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	12	1.72	2.21	2.21	2.21	2.21	2.94	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	14	1.66	2.13	2.13	2.13	2.13	3.32	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	12	12	1.65	2.09	2.09	2.09	2.79	2.79	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	12	14	1.58	2.03	2.03	2.03	2.69	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	12	12	12	1.54	1.99	1.99	2.66	2.66	2.66	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	9	9	2.25	2.25	2.25	2.25	2.25	2.25	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	9	12	2.13	2.13	2.13	2.13	2.13	2.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	12	12	2.03	2.03	2.03	2.03	2.69	2.69	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00

Note:
- •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
- •The above is the value for connecting with Wall Mounted type.
- •2 or more indoor units should be connected.
- •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
- •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- •The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

8-unit Multi-split Combination Table-Cooling

8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Unit								Cooling Operation									
									Cooling Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2-unit connection	24	24	-	-	-	-	-	-	7.03	7.03	-	-	-	-	-	-	14.06	5.20
	18	24	-	-	-	-	-	-	5.27	7.03	-	-	-	-	-	-	12.30	4.24
3-unit connection	18	18	24	-	-	-	-	-	4.63	4.63	6.18	-	-	-	-	-	15.45	5.89
	18	18	18	-	-	-	-	-	5.01	5.01	5.01	-	-	-	-	-	15.03	5.90
	14	24	24	-	-	-	-	-	3.54	6.07	6.07	-	-	-	-	-	15.68	5.87
	14	18	24	-	-	-	-	-	3.84	4.94	6.59	-	-	-	-	-	15.37	5.90
	14	18	18	-	-	-	-	-	4.10	5.27	5.27	-	-	-	-	-	14.64	5.50
	14	14	24	-	-	-	-	-	4.10	4.10	7.03	-	-	-	-	-	15.23	5.79
	14	14	18	-	-	-	-	-	4.10	4.10	5.27	-	-	-	-	-	13.47	4.89
	14*1	14*1	14*1	-	-	-	-	-	4.10	4.10	4.10	-	-	-	-	-	12.30	4.24
	12	24	24	-	-	-	-	-	3.09	6.18	6.18	-	-	-	-	-	15.45	5.89
	12	18	24	-	-	-	-	-	3.35	5.01	6.68	-	-	-	-	-	15.04	5.90
	12	18	18	-	-	-	-	-	3.52	5.27	5.27	-	-	-	-	-	14.06	5.20
	12	14	24	-	-	-	-	-	3.52	4.10	7.03	-	-	-	-	-	14.65	5.50
	12	14	18	-	-	-	-	-	3.52	4.10	5.27	-	-	-	-	-	12.89	4.57
	12*1	14*1	14*1	-	-	-	-	-	3.52	4.10	4.10	-	-	-	-	-	11.72	3.91
	12	12	24	-	-	-	-	-	3.52	3.52	7.03	-	-	-	-	-	14.07	5.20
	12	12	18	-	-	-	-	-	3.52	3.52	5.27	-	-	-	-	-	12.31	4.24
	9	24	24	-	-	-	-	-	2.46	6.54	6.54	-	-	-	-	-	15.54	5.90
	9	18	24	-	-	-	-	-	2.64	5.27	7.03	-	-	-	-	-	14.94	5.65
	9	18	18	-	-	-	-	-	2.64	5.27	5.27	-	-	-	-	-	13.18	4.73
	9	14	24	-	-	-	-	-	2.64	4.10	7.03	-	-	-	-	-	13.77	5.05
	9	14	18	-	-	-	-	-	2.64	4.10	5.27	-	-	-	-	-	12.01	4.08
	9	12	24	-	-	-	-	-	2.64	3.52	7.03	-	-	-	-	-	13.19	4.73
	9	12	18	-	-	-	-	-	2.64	3.52	5.27	-	-	-	-	-	11.43	3.74
	9	9	24	-	-	-	-	-	2.64	2.64	7.03	-	-	-	-	-	12.31	4.24
	7	24	24	-	-	-	-	-	1.93	6.64	6.64	-	-	-	-	-	15.21	5.90
	7	18	24	-	-	-	-	-	2.05	5.27	7.03	-	-	-	-	-	14.35	5.35
	7	18	18	-	-	-	-	-	2.05	5.27	5.27	-	-	-	-	-	12.59	4.41
	7	14	24	-	-	-	-	-	2.05	4.10	7.03	-	-	-	-	-	13.18	4.73
	7	14	18	-	-	-	-	-	2.05	4.10	5.27	-	-	-	-	-	11.42	3.74
	7	12	24	-	-	-	-	-	2.05	3.52	7.03	-	-	-	-	-	12.60	4.41
	7	9	24	-	-	-	-	-	2.05	2.64	7.03	-	-	-	-	-	11.72	3.91
4-unit connection	14	14	14	18	-	-	-	-	3.60	3.60	3.60	4.63	-	-	-	-	15.45	5.89
	14	14	14	14	-	-	-	-	3.84	3.84	3.84	3.84	-	-	-	-	15.37	5.90
	12	14	18	18	-	-	-	-	3.04	3.54	4.55	4.55	-	-	-	-	15.68	5.87
	12	14	14	18	-	-	-	-	3.15	3.67	3.67	4.72	-	-	-	-	15.21	5.90
	12	14	14	14	-	-	-	-	3.35	3.90	3.90	3.90	-	-	-	-	15.04	5.90
	12	12	18	18	-	-	-	-	3.09	3.09	4.63	4.63	-	-	-	-	15.45	5.89
	12	12	14	24	-	-	-	-	3.04	3.04	3.54	6.07	-	-	-	-	15.69	5.87
	12	12	14	18	-	-	-	-	3.30	3.30	3.84	4.94	-	-	-	-	15.38	5.90
	12	12	14	14	-	-	-	-	3.52	3.52	4.10	4.10	-	-	-	-	15.24	5.79
	12	12	12	24	-	-	-	-	3.09	3.09	3.09	6.18	-	-	-	-	15.45	5.89
	12	12	12	18	-	-	-	-	3.35	3.35	3.35	5.01	-	-	-	-	15.05	5.90
	12	12	12	14	-	-	-	-	3.52	3.52	3.52	4.10	-	-	-	-	14.66	5.50
	12	12	12	12	-	-	-	-	3.52	3.52	3.52	3.52	-	-	-	-	14.08	5.20
	9	14	18	18	-	-	-	-	2.34	3.64	4.67	4.67	-	-	-	-	15.33	5.89
	9	14	14	24	-	-	-	-	2.30	3.57	3.57	6.12	-	-	-	-	15.57	5.88
	9	14	14	18	-	-	-	-	2.49	3.87	3.87	4.97	-	-	-	-	15.21	5.90
	9	14	14	14	-	-	-	-	2.64	4.10	4.10	4.10	-	-	-	-	14.94	5.65
	9	12	18	18	-	-	-	-	2.46	3.28	4.90	4.90	-	-	-	-	15.54	5.90
	9	12	14	24	-	-	-	-	2.34	3.12	3.64	6.23	-	-	-	-	15.33	5.89
	9	12	14	18	-	-	-	-	2.53	3.37	3.93	5.05	-	-	-	-	14.87	5.90
	9	12	14	14	-	-	-	-	2.64	3.52	4.10	4.10	-	-	-	-	14.36	5.35
	9	12	12	24	-	-	-	-	2.46	3.28	3.28	6.54	-	-	-	-	15.55	5.90
	9	12	12	18	-	-	-	-	2.64	3.52	3.52	5.27	-	-	-	-	14.95	5.65
	9	12	12	14	-	-	-	-	2.64	3.52	3.52	4.10	-	-	-	-	13.78	5.05
	9	12	12	12	-	-	-	-	2.64	3.52	3.52	3.52	-	-	-	-	13.20	4.73
	9	9	18	24	-	-	-	-	2.32	2.32	4.63	6.18	-	-	-	-	15.45	5.89
	9	9	18	18	-	-	-	-	2.51	2.51	5.01	5.01	-	-	-	-	15.04	5.90
	9	9	14	24	-	-	-	-	2.47	2.47	3.84	6.59	-	-	-	-	15.38	5.90
	9	9	14	18	-	-	-	-	2.64	2.64	4.10	5.27	-	-	-	-	14.65	5.50
	9	9	14	14	-	-	-	-	2.64	2.64	4.10	4.10	-	-	-	-	13.48	4.89
	9	9	12	24	-	-	-	-	2.51	2.51	3.35	6.68	-	-	-	-	15.05	5.90
	9	9	12	18	-	-	-	-	2.64	2.64	3.52	5.27	-	-	-	-	14.07	5.20
	9	9	12	14	-	-	-	-	2.64	2.64	3.52	4.10	-	-	-	-	12.90	4.57
	9	9	12	12	-	-	-	-	2.64	2.64	3.52	3.52	-	-	-	-	12.32	4.24
	9	9	9	24	-	-	-	-	2.64	2.64	2.64	7.03	-	-	-	-	14.95	5.65
	9	9	9	18	-	-	-	-	2.64	2.64	2.64	5.27	-	-	-	-	13.19	4.73
	9	9	9	14	-	-	-	-	2.64	2.64	2.64	4.10	-	-	-	-	12.02	4.08
	9	9	9	12	-	-	-	-	2.64	2.64	2.64	3.52	-	-	-	-	11.44	3.74
	7	18	18	18	-	-	-	-	1.79	4.59	4.59	4.59	-	-	-	-	15.56	5.88
	7	14	18	18	-	-	-	-	1.91	3.82	4.91	4.91	-	-	-	-	15.54	5.90
	7	14	14	24	-	-	-	-	1.82	3.64	3.64	6.24	-	-	-	-	15.33	5.89
	7	14	14	18	-	-	-	-	1.96	3.93	3.93	5.05	-	-	-	-	14.87	5.90
	7	14	14	14	-	-	-	-	2.05	4.10	4.10	4.10	-	-	-	-	14.35	5.35
	7	12	18	24	-	-	-	-	1.79	3.07	4.59	6.12	-	-	-	-	15.57	5.88
	7	12	18	18	-	-	-	-	1.93	3.32	4.97	4.97	-	-	-	-	15.21	5.90
	7	12	14	24	-	-	-	-	1.91	3.28	3.82	6.54	-	-	-	-	15.54	5.90
	7	12	14	18	-	-	-	-	2.05	3.52	4.10	5.27	-	-	-	-	14.94	5.65
	7	12	14	14	-	-	-	-	2.05	3.52	4.10	4.10	-	-	-	-	13.77	5.05
	7	12	12	24	-	-	-	-	1.93	3.32	3.32	6.63	-	-	-	-	15.21	5.90
	7	12	12	18	-	-	-	-	2.05	3.52	3.52	5.27	-	-	-	-	14.36	5.35
	7	12	12	14	-	-	-	-	2.05	3.52	3.52	4.10	-	-	-	-	13.19	4.73
	7	12	12	12	-	-	-	-	2.05	3.52	3.52	3.52	-	-	-	-	12.61	4.41
	7	9	18	24	-	-	-	-	1.84	2.36	4.72	6.29	-	-	-	-	15.21	5.90
	7	9	18	18	-	-	-	-	2.05	2.64	5.27	5.27	-	-	-	-	15.23	5.79
	7	9	14	24	-	-	-	-	1.95	2.51	3.90	6.68	-	-	-	-	15.04	5.90
	7	9	14	18	-	-	-	-	2.05	2.64	4.10	5.27	-	-	-	-	14.06	5.20
	7	9	12	24	-	-	-	-	2.05	2.64	3.52	7.03	-	-	-	-	15.24	5.79
	7	9	12	18	-	-	-	-	2.05	2.64	3.52	5.27	-	-	-	-	13.48	4.89
	7	9	12	14	-	-	-	-	2.05	2.64	3.52	4.10	-	-	-	-	12.31	4.24
	7	9	12	12	-	-	-	-	2.05	2.64	3.52	3.52	-	-	-	-	11.73	3.91
	7	9	9	24	-	-	-	-	2.05	2.64	2.64	7.03	-	-	-	-	14.36	5.35
	7	9	9	18	-	-	-	-	2.05	2.64	2.64	5.27	-	-	-	-	12.60	4.41
	7	9	9	14	-	-	-	-	2.05	2.64	2.64	4.10	-	-	-	-	11.43	3.74
	7	7	24	24	-	-	-	-	1.77	1.77	6.07	6.07	-	-	-	-	15.68	5.87
	7	7	18	24	-	-	-	-	1.92	1.92	4.94	6.59	-	-	-	-	15.37	5.90
	7	7	18	18	-	-	-	-	2.05	2.05	5.27	5.27	-	-	-	-	14.64	5.50
	7	7	14	24	-	-	-	-	2.05	2.05	4.10	7.03	-	-	-	-	15.23	5.79

Note:
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
- Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
- Height difference: 0 m (Outdoor unit to Indoor unit)
- The values in this table should be used only as a guide. These values are calculated at standard conditions. To fix your selection of models, select them according to "Model Selection" in the D&T manual.

*1: LMC type is not available for this combination.

8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Unit								Cooling Operation									
									Cooling Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
4-unit connection	7	7	14	18	-	-	-	-	2.05	2.05	4.10	5.27	-	-	-	-	13.47	4.89
	7	7	14	14	-	-	-	-	2.05	2.05	4.10	4.10	-	-	-	-	12.30	4.24
	7	7	12	24	-	-	-	-	2.05	2.05	3.52	7.03	-	-	-	-	14.65	5.50
	7	7	12	18	-	-	-	-	2.05	2.05	3.52	5.27	-	-	-	-	12.89	4.57
	7	7	12	14	-	-	-	-	2.05	2.05	3.52	4.10	-	-	-	-	11.72	3.91
	7	7	9	24	-	-	-	-	2.05	2.05	2.64	7.03	-	-	-	-	13.77	5.05
	7	7	9	18	-	-	-	-	2.05	2.05	2.64	5.27	-	-	-	-	12.01	4.08
	7	7	7	24	-	-	-	-	2.05	2.05	2.05	7.03	-	-	-	-	13.18	4.73
	7	7	7	18	-	-	-	-	2.05	2.05	2.05	5.27	-	-	-	-	11.42	3.74
5-unit connection	12	12	12	12	14	-	-	-	3.04	3.04	3.04	3.04	3.54	-	-	-	15.69	5.87
	12	12	12	12	12	-	-	-	3.09	3.09	3.09	3.09	3.09	-	-	-	15.46	5.89
	9	12	12	14	14	-	-	-	2.30	3.07	3.07	3.57	3.57	-	-	-	15.57	5.88
	9	12	12	12	14	-	-	-	2.34	3.12	3.12	3.12	3.63	-	-	-	15.34	5.89
	9	12	12	12	12	-	-	-	2.46	3.27	3.27	3.27	3.27	-	-	-	15.55	5.90
	9	9	14	14	14	-	-	-	2.32	2.32	3.60	3.60	3.60	-	-	-	15.45	5.89
	9	9	12	14	18	-	-	-	2.28	2.28	3.04	3.54	4.55	-	-	-	15.69	5.87
	9	9	12	14	14	-	-	-	2.36	2.36	3.15	3.67	3.67	-	-	-	15.21	5.90
	9	9	12	12	18	-	-	-	2.32	2.32	3.09	3.09	4.63	-	-	-	15.45	5.89
	9	9	12	12	14	-	-	-	2.47	2.47	3.30	3.30	3.84	-	-	-	15.38	5.90
	9	9	12	12	12	-	-	-	2.51	2.51	3.34	3.34	3.34	-	-	-	15.05	5.90
	9	9	9	14	18	-	-	-	2.34	2.34	2.34	3.64	4.67	-	-	-	15.33	5.89
	9	9	9	14	14	-	-	-	2.49	2.49	2.49	3.87	3.87	-	-	-	15.21	5.90
	9	9	9	12	18	-	-	-	2.46	2.46	2.46	3.28	4.90	-	-	-	15.55	5.90
	9	9	9	12	14	-	-	-	2.53	2.53	2.53	3.37	3.93	-	-	-	14.88	5.90
	9	9	9	12	12	-	-	-	2.64	2.64	2.64	3.52	3.52	-	-	-	14.96	5.65
	9	9	9	9	24	-	-	-	2.32	2.32	2.32	2.32	6.18	-	-	-	15.45	5.89
	9	9	9	9	18	-	-	-	2.51	2.51	2.51	2.51	5.01	-	-	-	15.05	5.90
	9	9	9	9	14	-	-	-	2.64	2.64	2.64	2.64	4.10	-	-	-	14.66	5.50
	9	9	9	9	12	-	-	-	2.64	2.64	2.64	2.64	3.52	-	-	-	14.08	5.20
	9	9	9	9	9	-	-	-	2.64	2.64	2.64	2.64	2.64	-	-	-	13.20	4.73
	7	12	14	14	14	-	-	-	1.79	3.07	3.57	3.57	3.57	-	-	-	15.57	5.88
	7	12	12	14	14	-	-	-	1.82	3.12	3.12	3.64	3.64	-	-	-	15.33	5.89
	7	12	12	12	18	-	-	-	1.79	3.07	3.07	3.07	4.59	-	-	-	15.57	5.88
	7	12	12	12	14	-	-	-	1.91	3.28	3.28	3.28	3.82	-	-	-	15.55	5.90
	7	12	12	12	12	-	-	-	1.93	3.32	3.32	3.32	3.32	-	-	-	15.22	5.90
	7	9	14	14	18	-	-	-	1.77	2.28	3.54	3.54	4.55	-	-	-	15.68	5.87
	7	9	14	14	14	-	-	-	1.84	2.36	3.67	3.67	3.67	-	-	-	15.21	5.90
	7	9	12	14	18	-	-	-	1.80	2.32	3.09	3.60	4.63	-	-	-	15.45	5.89
	7	9	12	14	14	-	-	-	1.92	2.47	3.30	3.84	3.84	-	-	-	15.38	5.90
	7	9	12	12	18	-	-	-	1.83	2.36	3.15	3.15	4.72	-	-	-	15.21	5.90
	7	9	12	12	14	-	-	-	1.95	2.51	3.35	3.35	3.90	-	-	-	15.05	5.90
	7	9	12	12	12	-	-	-	2.05	2.64	3.52	3.52	3.52	-	-	-	15.25	5.79
	7	9	9	18	18	-	-	-	1.79	2.30	2.30	4.59	4.59	-	-	-	15.57	5.88
	7	9	9	14	18	-	-	-	1.91	2.46	2.46	3.82	4.90	-	-	-	15.54	5.90
	7	9	9	14	14	-	-	-	1.96	2.53	2.53	3.93	3.93	-	-	-	14.87	5.90
	7	9	9	12	24	-	-	-	1.79	2.30	2.30	3.07	6.12	-	-	-	15.57	5.88
	7	9	9	12	18	-	-	-	1.93	2.49	2.49	3.32	4.97	-	-	-	15.21	5.90
	7	9	9	12	14	-	-	-	2.05	2.64	2.64	3.52	4.10	-	-	-	14.95	5.65
	7	9	9	12	12	-	-	-	2.05	2.64	2.64	3.52	3.52	-	-	-	14.37	5.35
	7	9	9	9	24	-	-	-	1.83	2.36	2.36	2.36	6.29	-	-	-	15.21	5.90
	7	9	9	9	18	-	-	-	2.05	2.64	2.64	2.64	5.27	-	-	-	15.24	5.79
	7	9	9	9	14	-	-	-	2.05	2.64	2.64	2.64	4.10	-	-	-	14.07	5.20
	7	9	9	9	12	-	-	-	2.05	2.64	2.64	2.64	3.52	-	-	-	13.49	4.89
	7	9	9	9	9	-	-	-	2.05	2.64	2.64	2.64	2.64	-	-	-	12.61	4.41
	7	7	14	14	18	-	-	-	1.80	1.80	3.60	3.60	4.63	-	-	-	15.45	5.89
	7	7	14	14	14	-	-	-	1.92	1.92	3.84	3.84	3.84	-	-	-	15.37	5.90
	7	7	12	18	18	-	-	-	1.77	1.77	3.04	4.55	4.55	-	-	-	15.68	5.87
	7	7	12	14	18	-	-	-	1.84	1.84	3.15	3.67	4.72	-	-	-	15.21	5.90
	7	7	12	14	14	-	-	-	1.95	1.95	3.35	3.90	3.90	-	-	-	15.04	5.90
	7	7	12	12	24	-	-	-	1.77	1.77	3.04	3.04	6.07	-	-	-	15.69	5.87
	7	7	12	12	14	-	-	-	2.05	2.05	3.52	3.52	4.10	-	-	-	15.24	5.79
	7	7	12	12	12	-	-	-	2.05	2.05	3.52	3.52	3.52	-	-	-	14.66	5.50
	7	7	9	18	18	-	-	-	1.82	1.82	2.34	4.67	4.67	-	-	-	15.33	5.89
	7	7	9	14	24	-	-	-	1.79	1.79	2.30	3.57	6.12	-	-	-	15.57	5.88
	7	7	9	14	18	-	-	-	1.93	1.93	2.49	3.87	4.97	-	-	-	15.21	5.90
	7	7	9	14	14	-	-	-	2.05	2.05	2.64	4.10	4.10	-	-	-	14.94	5.65
	7	7	9	12	24	-	-	-	1.82	1.82	2.34	3.12	6.23	-	-	-	15.33	5.89
	7	7	9	12	18	-	-	-	1.96	1.96	2.53	3.37	5.05	-	-	-	14.87	5.90
	7	7	9	12	14	-	-	-	2.05	2.05	2.64	3.52	4.10	-	-	-	14.36	5.35
	7	7	9	12	12	-	-	-	2.05	2.05	2.64	3.52	3.52	-	-	-	13.78	5.05
	7	7	9	9	24	-	-	-	1.92	1.92	2.47	2.47	6.59	-	-	-	15.38	5.90
	7	7	9	9	18	-	-	-	2.05	2.05	2.64	2.64	5.27	-	-	-	14.65	5.50
	7	7	9	9	14	-	-	-	2.05	2.05	2.64	2.64	4.10	-	-	-	13.48	4.89
	7	7	9	9	12	-	-	-	2.05	2.05	2.64	2.64	3.52	-	-	-	12.90	4.57
	7	7	9	9	9	-	-	-	2.05	2.05	2.64	2.64	2.64	-	-	-	12.02	4.08
	7	7	7	18	18	-	-	-	1.91	1.91	1.91	4.91	4.91	-	-	-	15.54	5.90
	7	7	7	14	24	-	-	-	1.82	1.82	1.82	3.64	6.24	-	-	-	15.33	5.89
	7	7	7	14	18	-	-	-	1.96	1.96	1.96	3.93	5.05	-	-	-	14.87	5.90
	7	7	7	14	14	-	-	-	2.05	2.05	2.05	4.10	4.10	-	-	-	14.35	5.35
	7	7	7	12	24	-	-	-	1.91	1.91	1.91	3.28	6.54	-	-	-	15.54	5.90
	7	7	7	12	18	-	-	-	2.05	2.05	2.05	3.52	5.27	-	-	-	14.94	5.65
	7	7	7	12	14	-	-	-	2.05	2.05	2.05	3.52	4.10	-	-	-	13.77	5.05
	7	7	7	12	12	-	-	-	2.05	2.05	2.05	3.52	3.52	-	-	-	13.19	4.73
	7	7	7	9	24	-	-	-	1.95	1.95	1.95	2.51	6.68	-	-	-	15.04	5.90
	7	7	7	9	18	-	-	-	2.05	2.05	2.05	2.64	5.27	-	-	-	14.06	5.20
	7	7	7	9	14	-	-	-	2.05	2.05	2.05	2.64	4.10	-	-	-	12.89	4.57
	7	7	7	9	12	-	-	-	2.05	2.05	2.05	2.64	3.52	-	-	-	12.31	4.24
	7	7	7	9	9	-	-	-	2.05	2.05	2.05	2.64	2.64	-	-	-	11.43	3.74
	7	7	7	7	24	-	-	-	2.05	2.05	2.05	2.05	7.03	-	-	-	15.23	5.79
	7	7	7	7	18	-	-	-	2.05	2.05	2.05	2.05	5.27	-	-	-	13.47	4.89
	7	7	7	7	14	-	-	-	2.05	2.05	2.05	2.05	4.10	-	-	-	12.30	4.24
	7	7	7	7	12	-	-	-	2.05	2.05	2.05	2.05	3.52	-	-	-	11.72	3.91
6-unit connection	9	9	9	9	12	14	-	-	2.28	2.28	2.28	2.28	3.04	3.54	-	-	15.69	5.87
	9	9	9	9	12	12	-	-	2.32	2.32	2.32	2.32	3.09	3.09	-	-	15.46	5.89
	9	9	9	9	9	14	-	-	2.34	2.34	2.34	2.34	2.34	3.63	-	-	15.34	5.89
	9	9	9	9	9	12	-	-	2.46	2.46	2.46	2.46	2.46	3.27	-	-	15.55	5.90
	9	9	9	9	9	9	-	-	2.51	2.51	2.51	2.51	2.51	2.51	-	-	15.05	5.90
	7	9	9	12	12	12	-	-	1.78	2.30	2.30	3.06	3.06	3.06	-	-	15.57	5.88
	7	9	9	9	12	14	-	-	1.80	2.32	2.32	2.32	3.09	3.60	-	-	15.45	5.89
	7	9	9	9	12	12	-	-	1.83	2.36	2.36	2.36	3.15	3.15	-	-	15.22	5.90

Note:
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
- Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
- Height difference: 0 m (Outdoor unit to Indoor unit)
- The values in this table should be used only as a guide. These values are calculated at standard conditions. To fix your selection of models, select them according to "Model Selection" in the D&T manual.

8-unit Multi-split Combination Table-Cooling/Heating

8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Unit								Cooling Operation									
									Cooling Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
6-unit connection	7	9	9	9	9	18	-	-	1.79	2.30	2.30	2.30	2.30	4.59	-	-	15.57	5.88
	7	9	9	9	9	12	-	-	1.93	2.49	2.49	2.49	2.49	3.32	-	-	15.22	5.90
	7	9	9	9	9	9	-	-	2.05	2.64	2.64	2.64	2.64	2.64	-	-	15.25	5.79
	7	7	12	12	12	12	-	-	1.77	1.77	3.04	3.04	3.04	3.04	-	-	15.69	5.87
	7	7	9	12	12	14	-	-	1.79	1.79	2.30	3.07	3.07	3.57	-	-	15.57	5.88
	7	7	9	12	12	12	-	-	1.82	1.82	2.34	3.12	3.12	3.12	-	-	15.34	5.89
	7	7	9	9	14	14	-	-	1.80	1.80	2.32	2.32	3.60	3.60	-	-	15.45	5.89
	7	7	9	9	12	18	-	-	1.77	1.77	2.28	2.28	3.04	4.55	-	-	15.69	5.87
	7	7	9	9	12	14	-	-	1.83	1.83	2.36	2.36	3.15	3.67	-	-	15.21	5.90
	7	7	9	9	12	12	-	-	1.92	1.92	2.47	2.47	3.30	3.30	-	-	15.38	5.90
	7	7	9	9	9	18	-	-	1.82	1.82	2.34	2.34	2.34	4.67	-	-	15.33	5.89
	7	7	9	9	9	14	-	-	1.93	1.93	2.49	2.49	2.49	3.87	-	-	15.21	5.90
	7	7	9	9	9	12	-	-	1.96	1.96	2.53	2.53	2.53	3.37	-	-	14.88	5.90
	7	7	9	9	9	9	-	-	2.05	2.05	2.64	2.64	2.64	2.64	-	-	14.66	5.50
	7	7	7	12	14	14	-	-	1.79	1.79	1.79	3.07	3.57	3.57	-	-	15.57	5.88
	7	7	7	12	12	14	-	-	1.82	1.82	1.82	3.12	3.12	3.64	-	-	15.33	5.89
	7	7	7	12	12	12	-	-	1.91	1.91	1.91	3.28	3.28	3.28	-	-	15.55	5.90
	7	7	7	9	14	18	-	-	1.77	1.77	1.77	2.28	3.54	4.55	-	-	15.68	5.87
	7	7	7	9	14	14	-	-	1.84	1.84	1.84	2.36	3.67	3.67	-	-	15.21	5.90
	7	7	7	9	12	18	-	-	1.80	1.80	1.80	2.32	3.09	4.63	-	-	15.45	5.89
	7	7	7	9	12	14	-	-	1.92	1.92	1.92	2.47	3.30	3.84	-	-	15.38	5.90
	7	7	7	9	12	12	-	-	1.95	1.95	1.95	2.51	3.35	3.35	-	-	15.05	5.90
	7	7	7	9	9	18	-	-	1.91	1.91	1.91	2.46	2.46	4.90	-	-	15.54	5.90
	7	7	7	9	9	14	-	-	1.96	1.96	1.96	2.53	2.53	3.93	-	-	14.87	5.90
	7	7	7	9	9	12	-	-	2.05	2.05	2.05	2.64	2.64	3.52	-	-	14.95	5.65
	7	7	7	9	9	9	-	-	2.05	2.05	2.05	2.64	2.64	2.64	-	-	14.07	5.20
	7	7	7	7	14	18	-	-	1.80	1.80	1.80	1.80	3.60	4.63	-	-	15.45	5.89
	7	7	7	7	14	14	-	-	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90
	7	7	7	7	12	18	-	-	1.84	1.84	1.84	1.84	3.15	4.72	-	-	15.21	5.90
	7	7	7	7	12	14	-	-	1.95	1.95	1.95	1.95	3.35	3.90	-	-	15.04	5.90
	7	7	7	7	12	12	-	-	2.05	2.05	2.05	2.05	3.52	3.52	-	-	15.24	5.79
	7	7	7	7	9	24	-	-	1.79	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88
	7	7	7	7	9	18	-	-	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90
	7	7	7	7	9	14	-	-	2.05	2.05	2.05	2.05	2.64	4.10	-	-	14.94	5.65
	7	7	7	7	9	12	-	-	2.05	2.05	2.05	2.05	2.64	3.52	-	-	14.36	5.35
	7	7	7	7	9	9	-	-	2.05	2.05	2.05	2.05	2.64	2.64	-	-	13.48	4.89
	7	7	7	7	7	24	-	-	1.82	1.82	1.82	1.82	1.82	6.24	-	-	15.33	5.89
	7	7	7	7	7	18	-	-	1.96	1.96	1.96	1.96	1.96	5.05	-	-	14.87	5.90
	7	7	7	7	7	14	-	-	2.05	2.05	2.05	2.05	2.05	4.10	-	-	14.35	5.35
	7	7	7	7	7	12	-	-	2.05	2.05	2.05	2.05	2.05	3.52	-	-	13.77	5.05
	7	7	7	7	7	9	-	-	2.05	2.05	2.05	2.05	2.05	2.64	-	-	12.89	4.57
	7	7	7	7	7	7	-	-	2.05	2.05	2.05	2.05	2.05	2.05	-	-	12.30	4.24
7-unit connection	7	9	9	9	9	9	9	-	1.78	2.30	2.30	2.30	2.30	2.30	2.30	-	15.57	5.88
	7	7	9	9	9	9	12	-	1.77	1.77	2.28	2.28	2.28	2.28	3.04	-	15.69	5.87
	7	7	9	9	9	9	9	-	1.82	1.82	2.34	2.34	2.34	2.34	2.34	-	15.34	5.89
	7	7	7	9	9	9	14	-	1.77	1.77	1.77	2.28	2.28	2.28	3.54	-	15.69	5.87
	7	7	7	9	9	9	12	-	1.80	1.80	1.80	2.32	2.32	2.32	3.09	-	15.45	5.89
	7	7	7	9	9	9	9	-	1.91	1.91	1.91	2.46	2.46	2.46	2.46	-	15.55	5.90
	7	7	7	7	9	12	12	-	1.79	1.79	1.79	1.79	2.30	3.07	3.07	-	15.57	5.88
	7	7	7	7	9	9	14	-	1.80	1.80	1.80	1.80	2.32	2.32	3.60	-	15.45	5.89
	7	7	7	7	9	9	12	-	1.83	1.83	1.83	1.83	2.36	2.36	3.15	-	15.21	5.90
	7	7	7	7	9	9	9	-	1.93	1.93	1.93	1.93	2.49	2.49	2.49	-	15.21	5.90
	7	7	7	7	7	12	14	-	1.79	1.79	1.79	1.79	1.79	3.07	3.57	-	15.57	5.88
	7	7	7	7	7	12	12	-	1.82	1.82	1.82	1.82	1.82	3.12	3.12	-	15.33	5.89
	7	7	7	7	7	9	18	-	1.77	1.77	1.77	1.77	1.77	2.28	4.55	-	15.68	5.87
	7	7	7	7	7	9	14	-	1.84	1.84	1.84	1.84	1.84	2.36	3.67	-	15.21	5.90
	7	7	7	7	7	9	12	-	1.92	1.92	1.92	1.92	1.92	2.47	3.30	-	15.38	5.90
	7	7	7	7	7	9	9	-	1.96	1.96	1.96	1.96	1.96	2.53	2.53	-	14.87	5.90
	7	7	7	7	7	7	18	-	1.80	1.80	1.80	1.80	1.80	1.80	4.63	-	15.45	5.89
	7	7	7	7	7	7	14	-	1.92	1.92	1.92	1.92	1.92	1.92	3.84	-	15.37	5.90
	7	7	7	7	7	7	12	-	1.95	1.95	1.95	1.95	1.95	1.95	3.35	-	15.04	5.90
	7	7	7	7	7	7	9	-	2.05	2.05	2.05	2.05	2.05	2.05	2.64	-	14.94	5.65
	7	7	7	7	7	7	7	-	2.05	2.05	2.05	2.05	2.05	2.05	2.05	-	14.35	5.35
8-unit connection	7	7	7	7	7	9	9	9	1.77	1.77	1.77	1.77	1.77	2.28	2.28	2.28	15.69	5.87
	7	7	7	7	7	7	9	9	1.80	1.80	1.80	1.80	1.80	1.80	2.32	2.32	15.45	5.89
	7	7	7	7	7	7	7	12	1.79	1.79	1.79	1.79	1.79	1.79	1.79	3.07	15.57	5.88
	7	7	7	7	7	7	7	9	1.84	1.84	1.84	1.84	1.84	1.84	1.84	2.36	15.21	5.90
	7	7	7	7	7	7	7	7	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	15.37	5.90

Note:
- •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
- •Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
- •Height difference: 0 m (Outdoor unit to Indoor unit)
- •The values in this table should be used only as a guide. These values are calculated at standard conditions. To fix your selection of models, select them according to "Model Selection" in the D&T manual.

8-unit Multi-split heating

AOYG45LBT8	Combination of Indoor Unit								Heating Operation									
									Heating Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2-unit connection	24	24	-	-	-	-	-	-	7.91	7.91	-	-	-	-	-	-	15.82	5.07
	18	24	-	-	-	-	-	-	5.86	7.91	-	-	-	-	-	-	13.77	4.21
3-unit connection	18	18	24	-	-	-	-	-	5.32	5.32	7.18	-	-	-	-	-	17.82	5.98
	18	18	18	-	-	-	-	-	5.79	5.79	5.79	-	-	-	-	-	17.38	5.43
	14	24	24	-	-	-	-	-	4.26	7.02	7.02	-	-	-	-	-	18.31	5.98
	14	18	24	-	-	-	-	-	4.59	5.61	7.57	-	-	-	-	-	17.77	5.70
	14	18	18	-	-	-	-	-	4.78	5.84	5.84	-	-	-	-	-	16.46	5.11
	14	14	24	-	-	-	-	-	4.75	4.75	7.82	-	-	-	-	-	17.32	5.23
	14	14	18	-	-	-	-	-	4.80	4.80	5.86	-	-	-	-	-	15.46	4.75
	14*1	14*1	14*1	-	-	-	-	-	4.80	4.80	4.80	-	-	-	-	-	14.40	4.21
	12	24	24	-	-	-	-	-	3.58	7.15	7.15	-	-	-	-	-	17.89	5.98
	12	18	24	-	-	-	-	-	3.84	5.68	7.67	-	-	-	-	-	17.19	5.43
	12	18	18	-	-	-	-	-	3.96	5.86	5.86	-	-	-	-	-	15.68	5.07
	12	14	24	-	-	-	-	-	3.94	4.78	7.87	-	-	-	-	-	16.59	5.11
	12	14	18	-	-	-	-	-	3.96	4.80	5.86	-	-	-	-	-	14.62	4.46
	12*1	14*1	14*1	-	-	-	-	-	3.96	4.80	4.80	-	-	-	-	-	13.56	4.00
	12	12	24	-	-	-	-	-	3.96	3.96	7.91	-	-	-	-	-	15.83	5.07
	12	12	18	-	-	-	-	-	3.96	3.96	5.86	-	-	-	-	-	13.78	4.21
	9	24	24	-	-	-	-	-	2.85	7.54	7.54	-	-	-	-	-	17.93	5.87
	9	18	24	-	-	-	-	-	2.97	5.83	7.87	-	-	-	-	-	16.67	5.16
	9	18	18	-	-	-	-	-	2.99	5.86	5.86	-	-	-	-	-	14.71	4.60
	9	14	24	-	-	-	-	-	2.99	4.80	7.91	-	-	-	-	-	15.70	4.91
	9	14	18	-	-	-	-	-	2.99	4.80	5.86	-	-	-	-	-	13.65	4.10
	9	12	24	-	-	-	-	-	2.99	3.96	7.91	-	-	-	-	-	14.86	4.60
	9	12	18	-	-	-	-	-	2.99	3.96	5.86	-	-	-	-	-	12.81	3.90
	9	9	24	-	-	-	-	-	2.99	2.99	7.91	-	-	-	-	-	13.89	4.21
	7	24	24	-	-	-	-	-	2.28	7.61	7.61	-	-	-	-	-	17.51	5.56
	7	18	24	-	-	-	-	-	2.37	5.85	7.90	-	-	-	-	-	16.12	5.08
	7	18	18	-	-	-	-	-	2.37	5.86	5.86	-	-	-	-	-	14.09	4.33
	7	14	24	-	-	-	-	-	2.37	4.80	7.91	-	-	-	-	-	15.08	4.60
	7	14	18	-	-	-	-	-	2.37	4.80	5.86	-	-	-	-	-	13.03	3.90
	7	12	24	-	-	-	-	-	2.37	3.96	7.91	-	-	-	-	-	14.24	4.33
	7	9	24	-	-	-	-	-	2.37	2.99	7.91	-	-	-	-	-	13.27	4.00
4-unit connection	14	14	14	18	-	-	-	-	4.30	4.30	4.30	5.24	-	-	-	-	18.13	5.98
	14	14	14	14	-	-	-	-	4.55	4.55	4.55	4.55	-	-	-	-	18.20	5.70
	12	14	18	18	-	-	-	-	3.53	4.28	5.22	5.22	-	-	-	-	18.24	5.98
	12	14	14	18	-	-	-	-	3.61	4.38	4.38	5.34	-	-	-	-	17.71	5.98
	12	14	14	14	-	-	-	-	3.80	4.61	4.61	4.61	-	-	-	-	17.62	5.43
	12	12	18	18	-	-	-	-	3.59	3.59	5.32	5.32	-	-	-	-	17.82	5.98
	12	12	14	24	-	-	-	-	3.52	3.52	4.26	7.02	-	-	-	-	18.32	5.98
	12	12	14	18	-	-	-	-	3.79	3.79	4.59	5.61	-	-	-	-	17.77	5.70
	12	12	14	14	-	-	-	-	3.92	3.92	4.75	4.75	-	-	-	-	17.33	5.23
	12	12	12	24	-	-	-	-	3.58	3.58	3.58	7.15	-	-	-	-	17.90	5.98
	12	12	12	18	-	-	-	-	3.84	3.84	3.84	5.68	-	-	-	-	17.20	5.43
	12	12	12	14	-	-	-	-	3.94	3.94	3.94	4.78	-	-	-	-	16.60	5.11
	12	12	12	12	-	-	-	-	3.96	3.96	3.96	3.96	-	-	-	-	15.84	5.07
	9	14	18	18	-	-	-	-	2.72	4.37	5.33	5.33	-	-	-	-	17.76	5.98
	9	14	14	24	-	-	-	-	2.66	4.27	4.27	7.04	-	-	-	-	18.25	5.98
	9	14	14	18	-	-	-	-	2.87	4.60	4.60	5.62	-	-	-	-	17.68	5.56
	9	14	14	14	-	-	-	-	2.96	4.75	4.75	4.75	-	-	-	-	17.22	5.16
	9	12	18	18	-	-	-	-	2.86	3.78	5.60	5.60	-	-	-	-	17.84	5.87
	9	12	14	24	-	-	-	-	2.71	3.59	4.35	7.17	-	-	-	-	17.83	5.98
	9	12	14	18	-	-	-	-	2.90	3.85	4.66	5.69	-	-	-	-	17.11	5.32
	9	12	14	14	-	-	-	-	2.98	3.94	4.78	4.78	-	-	-	-	16.48	5.08
	9	12	12	24	-	-	-	-	2.85	3.77	3.77	7.54	-	-	-	-	17.94	5.87
	9	12	12	18	-	-	-	-	2.97	3.94	3.94	5.83	-	-	-	-	16.67	5.16
	9	12	12	14	-	-	-	-	2.99	3.96	3.96	4.80	-	-	-	-	15.71	4.91
	9	12	12	12	-	-	-	-	2.99	3.96	3.96	3.96	-	-	-	-	14.87	4.60
	9	9	18	24	-	-	-	-	2.71	2.71	5.30	7.16	-	-	-	-	17.88	5.98
	9	9	18	18	-	-	-	-	2.90	2.90	5.68	5.68	-	-	-	-	17.17	5.43
	9	9	14	24	-	-	-	-	2.86	2.86	4.58	7.55	-	-	-	-	17.85	5.70
	9	9	14	18	-	-	-	-	2.98	2.98	4.78	5.83	-	-	-	-	16.56	5.11
	9	9	14	14	-	-	-	-	2.99	2.99	4.80	4.80	-	-	-	-	15.58	4.75
	9	9	12	24	-	-	-	-	2.89	2.89	3.83	7.65	-	-	-	-	17.27	5.43
	9	9	12	18	-	-	-	-	2.99	2.99	3.96	5.86	-	-	-	-	15.80	5.07
	9	9	12	14	-	-	-	-	2.99	2.99	3.96	4.80	-	-	-	-	14.74	4.46
	9	9	12	12	-	-	-	-	2.99	2.99	3.96	3.96	-	-	-	-	13.90	4.21
	9	9	9	24	-	-	-	-	2.97	2.97	2.97	7.86	-	-	-	-	16.77	5.16
	9	9	9	18	-	-	-	-	2.99	2.99	2.99	5.86	-	-	-	-	14.83	4.60
	9	9	9	14	-	-	-	-	2.99	2.99	2.99	4.80	-	-	-	-	13.77	4.10
	9	9	9	12	-	-	-	-	2.99	2.99	2.99	3.96	-	-	-	-	12.93	3.90
	7	18	18	18	-	-	-	-	2.14	5.28	5.28	5.28	-	-	-	-	17.98	5.98
	7	14	18	18	-	-	-	-	2.26	4.57	5.58	5.58	-	-	-	-	17.99	5.87
	7	14	14	24	-	-	-	-	2.14	4.33	4.33	7.14	-	-	-	-	17.94	5.98
	7	14	14	18	-	-	-	-	2.29	4.65	4.65	5.67	-	-	-	-	17.26	5.32
	7	14	14	14	-	-	-	-	2.36	4.77	4.77	4.77	-	-	-	-	16.67	5.08
	7	12	18	24	-	-	-	-	2.13	3.56	5.26	7.10	-	-	-	-	18.05	5.98
	7	12	18	18	-	-	-	-	2.29	3.82	5.65	5.65	-	-	-	-	17.41	5.56
	7	12	14	24	-	-	-	-	2.25	3.76	4.56	7.52	-	-	-	-	18.09	5.87
	7	12	14	18	-	-	-	-	2.35	3.93	4.77	5.82	-	-	-	-	16.87	5.16
	7	12	14	14	-	-	-	-	2.37	3.96	4.80	4.80	-	-	-	-	15.93	4.91
	7	12	12	24	-	-	-	-	2.28	3.81	3.81	7.61	-	-	-	-	17.51	5.56
	7	12	12	18	-	-	-	-	2.37	3.96	3.96	5.85	-	-	-	-	16.13	5.08
	7	12	12	14	-	-	-	-	2.37	3.96	3.96	4.80	-	-	-	-	15.09	4.60
	7	12	12	12	-	-	-	-	2.37	3.96	3.96	3.96	-	-	-	-	14.25	4.33
	7	9	18	24	-	-	-	-	2.25	2.84	5.56	7.51	-	-	-	-	18.15	5.98
	7	9	18	18	-	-	-	-	2.35	2.97	5.81	5.81	-	-	-	-	16.95	5.23
	7	9	14	24	-	-	-	-	2.29	2.88	4.63	7.63	-	-	-	-	17.42	5.43
	7	9	14	18	-	-	-	-	2.37	2.99	4.80	5.86	-	-	-	-	16.02	5.07
	7	9	12	24	-	-	-	-	2.35	2.96	3.92	7.84	-	-	-	-	17.08	5.23
	7	9	12	18	-	-	-	-	2.37	2.99	3.96	5.86	-	-	-	-	15.18	4.75
	7	9	12	14	-	-	-	-	2.37	2.99	3.96	4.80	-	-	-	-	14.12	4.21
	7	9	12	12	-	-	-	-	2.37	2.99	3.96	3.96	-	-	-	-	13.28	4.00
	7	9	9	24	-	-	-	-	2.37	2.98	2.98	7.89	-	-	-	-	16.23	5.08
	7	9	9	18	-	-	-	-	2.37	2.99	2.99	5.86	-	-	-	-	14.21	4.33
	7	9	9	14	-	-	-	-	2.37	2.99	2.99	4.80	-	-	-	-	13.15	3.90
	7	7	24	24	-	-	-	-	2.11	2.11	7.03	7.03	-	-	-	-	18.28	5.98
	7	7	18	24	-	-	-	-	2.27	2.27	5.61	7.57	-	-	-	-	17.73	5.70
	7	7	18	18	-	-	-	-	2.36	2.36	5.84	5.84	-	-	-	-	16.40	5.11
	7	7	14	24	-	-	-	-	2.35	2.35	4.75	7.83	-	-	-	-	17.27	5.23

Note:
- •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
- •Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
- •Height difference: 0 m (Outdoor unit to Indoor unit)
- •The values in this table should be used only as a guide. These values are calculated at standard conditions. To fix your selection of models, select them according to "Model Selection" in the D&T manual.

*1: LMC type is not available for this combination.

8-unit Multi-split Combination Table–Heating

8-unit Multi-split heating

AOYG45LBT8	Combination of Indoor Unit								Heating Operation									
									Heating Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
4-unit connection	7	7	14	18	-	-	-	-	2.37	2.37	4.80	5.86	-	-	-	-	15.40	4.75
	7	7	14	14	-	-	-	-	2.37	2.37	4.80	4.80	-	-	-	-	14.34	4.21
	7	7	12	24	-	-	-	-	2.36	2.36	3.94	7.87	-	-	-	-	16.53	5.11
	7	7	12	18	-	-	-	-	2.37	2.37	3.96	5.86	-	-	-	-	14.56	4.46
	7	7	12	14	-	-	-	-	2.37	2.37	3.96	4.80	-	-	-	-	13.50	4.00
	7	7	9	24	-	-	-	-	2.37	2.37	2.99	7.91	-	-	-	-	15.64	4.91
	7	7	9	18	-	-	-	-	2.37	2.37	2.99	5.86	-	-	-	-	13.59	4.10
	7	7	7	24	-	-	-	-	2.37	2.37	2.37	7.91	-	-	-	-	15.02	4.60
	7	7	7	18	-	-	-	-	2.37	2.37	2.37	5.86	-	-	-	-	12.97	3.90
5-unit connection	12	12	12	12	14	-	-	-	3.51	3.51	3.51	3.51	4.26	-	-	-	18.32	5.98
	12	12	12	12	12	-	-	-	3.58	3.58	3.58	3.58	3.58	-	-	-	17.90	5.98
	9	12	12	14	14	-	-	-	2.66	3.52	3.52	4.27	4.27	-	-	-	18.26	5.98
	9	12	12	12	14	-	-	-	2.71	3.59	3.59	3.59	4.35	-	-	-	17.84	5.98
	9	12	12	12	12	-	-	-	2.85	3.77	3.77	3.77	3.77	-	-	-	17.95	5.87
	9	9	14	14	14	-	-	-	2.67	2.67	4.28	4.28	4.28	-	-	-	18.19	5.98
	9	9	12	14	18	-	-	-	2.66	2.66	3.52	4.26	5.21	-	-	-	18.30	5.98
	9	9	12	14	14	-	-	-	2.72	2.72	3.60	4.37	4.37	-	-	-	17.77	5.98
	9	9	12	12	18	-	-	-	2.71	2.71	3.58	3.58	5.30	-	-	-	17.88	5.98
	9	9	12	12	14	-	-	-	2.86	2.86	3.78	3.78	4.58	-	-	-	17.86	5.70
	9	9	12	12	12	-	-	-	2.89	2.89	3.83	3.83	3.83	-	-	-	17.28	5.43
	9	9	9	14	18	-	-	-	2.71	2.71	2.71	4.36	5.32	-	-	-	17.82	5.98
	9	9	9	14	14	-	-	-	2.86	2.86	2.86	4.59	4.59	-	-	-	17.77	5.56
	9	9	9	12	18	-	-	-	2.85	2.85	2.85	3.78	5.59	-	-	-	17.92	5.87
	9	9	9	12	14	-	-	-	2.90	2.90	2.90	3.84	4.65	-	-	-	17.19	5.32
	9	9	9	12	12	-	-	-	2.97	2.97	2.97	3.93	3.93	-	-	-	16.78	5.16
	9	9	9	9	24	-	-	-	2.70	2.70	2.70	2.70	7.14	-	-	-	17.94	5.98
	9	9	9	9	18	-	-	-	2.89	2.89	2.89	2.89	5.67	-	-	-	17.25	5.43
	9	9	9	9	14	-	-	-	2.97	2.97	2.97	2.97	4.77	-	-	-	16.67	5.11
	9	9	9	9	12	-	-	-	2.99	2.99	2.99	2.99	3.96	-	-	-	15.92	5.07
	9	9	9	9	9	-	-	-	2.99	2.99	2.99	2.99	2.99	-	-	-	14.95	4.60
	7	12	14	14	14	-	-	-	2.10	3.51	4.25	4.25	4.25	-	-	-	18.37	5.98
	7	12	12	14	14	-	-	-	2.14	3.57	3.57	4.33	4.33	-	-	-	17.95	5.98
	7	12	12	12	18	-	-	-	2.13	3.56	3.56	3.56	5.26	-	-	-	18.06	5.98
	7	12	12	12	14	-	-	-	2.25	3.76	3.76	3.76	4.56	-	-	-	18.10	5.87
	7	12	12	12	12	-	-	-	2.28	3.81	3.81	3.81	3.81	-	-	-	17.52	5.56
	7	9	14	14	18	-	-	-	2.09	2.64	4.24	4.24	5.18	-	-	-	18.40	5.98
	7	9	14	14	14	-	-	-	2.14	2.71	4.34	4.34	4.34	-	-	-	17.88	5.98
	7	9	12	14	18	-	-	-	2.13	2.69	3.57	4.32	5.28	-	-	-	17.99	5.98
	7	9	12	14	14	-	-	-	2.26	2.85	3.77	4.57	4.57	-	-	-	18.01	5.70
	7	9	12	12	18	-	-	-	2.25	2.84	3.76	3.76	5.56	-	-	-	18.16	5.98
	7	9	12	12	14	-	-	-	2.28	2.88	3.82	3.82	4.63	-	-	-	17.43	5.43
	7	9	12	12	12	-	-	-	2.35	2.96	3.92	3.92	3.92	-	-	-	17.09	5.23
	7	9	9	18	18	-	-	-	2.13	2.69	2.69	5.27	5.27	-	-	-	18.04	5.98
	7	9	9	14	18	-	-	-	2.25	2.84	2.84	4.56	5.57	-	-	-	18.07	5.87
	7	9	9	14	14	-	-	-	2.29	2.89	2.89	4.64	4.64	-	-	-	17.34	5.32
	7	9	9	12	24	-	-	-	2.12	2.68	2.68	3.55	7.08	-	-	-	18.11	5.98
	7	9	9	12	18	-	-	-	2.28	2.88	2.88	3.81	5.64	-	-	-	17.49	5.56
	7	9	9	12	14	-	-	-	2.35	2.97	2.97	3.93	4.76	-	-	-	16.97	5.16
	7	9	9	12	12	-	-	-	2.37	2.98	2.98	3.95	3.95	-	-	-	16.24	5.08
	7	9	9	9	24	-	-	-	2.17	2.74	2.74	2.74	7.24	-	-	-	17.63	5.98
	7	9	9	9	18	-	-	-	2.35	2.96	2.96	2.96	5.81	-	-	-	17.05	5.23
	7	9	9	9	14	-	-	-	2.37	2.99	2.99	2.99	4.79	-	-	-	16.12	5.07
	7	9	9	9	12	-	-	-	2.37	2.99	2.99	2.99	3.96	-	-	-	15.30	4.75
	7	9	9	9	9	-	-	-	2.37	2.99	2.99	2.99	2.99	-	-	-	14.33	4.33
	7	7	14	14	18	-	-	-	2.12	2.12	4.30	4.30	5.25	-	-	-	18.10	5.98
	7	7	14	14	14	-	-	-	2.25	2.25	4.55	4.55	4.55	-	-	-	18.16	5.70
	7	7	12	18	18	-	-	-	2.11	2.11	3.53	5.23	5.23	-	-	-	18.21	5.98
	7	7	12	14	18	-	-	-	2.16	2.16	3.62	4.38	5.35	-	-	-	17.68	5.98
	7	7	12	14	14	-	-	-	2.28	2.28	3.80	4.61	4.61	-	-	-	17.58	5.43
	7	7	12	12	24	-	-	-	2.11	2.11	3.52	3.52	7.03	-	-	-	18.29	5.98
	7	7	12	12	14	-	-	-	2.35	2.35	3.92	3.92	4.75	-	-	-	17.28	5.23
	7	7	12	12	12	-	-	-	2.36	2.36	3.94	3.94	3.94	-	-	-	16.54	5.11
	7	7	9	18	18	-	-	-	2.16	2.16	2.72	5.34	5.34	-	-	-	17.73	5.98
	7	7	9	14	24	-	-	-	2.11	2.11	2.67	4.28	7.05	-	-	-	18.22	5.98
	7	7	9	14	18	-	-	-	2.27	2.27	2.87	4.61	5.62	-	-	-	17.64	5.56
	7	7	9	14	14	-	-	-	2.35	2.35	2.96	4.75	4.75	-	-	-	17.16	5.16
	7	7	9	12	24	-	-	-	2.15	2.15	2.72	3.60	7.18	-	-	-	17.80	5.98
	7	7	9	12	18	-	-	-	2.34	2.34	2.96	3.92	5.80	-	-	-	17.36	5.32
	7	7	9	12	14	-	-	-	2.36	2.36	2.98	3.95	4.78	-	-	-	16.43	5.08
	7	7	9	12	12	-	-	-	2.37	2.37	2.99	3.96	3.96	-	-	-	15.65	4.91
	7	7	9	9	24	-	-	-	2.27	2.27	2.86	2.86	7.56	-	-	-	17.81	5.70
	7	7	9	9	18	-	-	-	2.36	2.36	2.98	2.98	5.83	-	-	-	16.51	5.11
	7	7	9	9	14	-	-	-	2.37	2.37	2.99	2.99	4.80	-	-	-	15.52	4.75
	7	7	9	9	12	-	-	-	2.37	2.37	2.99	2.99	3.96	-	-	-	14.68	4.46
	7	7	9	9	9	-	-	-	2.37	2.37	2.99	2.99	2.99	-	-	-	13.71	4.10
	7	7	7	18	18	-	-	-	2.26	2.26	2.26	5.58	5.58	-	-	-	17.95	5.87
	7	7	7	14	24	-	-	-	2.14	2.14	2.14	4.34	7.15	-	-	-	17.91	5.98
	7	7	7	14	18	-	-	-	2.30	2.30	2.30	4.65	5.68	-	-	-	17.22	5.32
	7	7	7	14	14	-	-	-	2.36	2.36	2.36	4.77	4.77	-	-	-	16.62	5.08
	7	7	7	12	24	-	-	-	2.25	2.25	2.25	3.77	7.52	-	-	-	18.05	5.87
	7	7	7	12	18	-	-	-	2.35	2.35	2.35	3.93	5.82	-	-	-	16.81	5.16
	7	7	7	12	14	-	-	-	2.37	2.37	2.37	3.96	4.80	-	-	-	15.87	4.91
	7	7	7	12	12	-	-	-	2.37	2.37	2.37	3.96	3.96	-	-	-	15.03	4.60
	7	7	7	9	24	-	-	-	2.29	2.29	2.29	2.89	7.63	-	-	-	17.38	5.43
	7	7	7	9	18	-	-	-	2.37	2.37	2.37	2.99	5.86	-	-	-	15.96	5.07
	7	7	7	9	14	-	-	-	2.37	2.37	2.37	2.99	4.80	-	-	-	14.90	4.46
	7	7	7	9	12	-	-	-	2.37	2.37	2.37	2.99	3.96	-	-	-	14.06	4.21
	7	7	7	9	9	-	-	-	2.37	2.37	2.37	2.99	2.99	-	-	-	13.09	3.90
	7	7	7	7	24	-	-	-	2.35	2.35	2.35	2.35	7.83	-	-	-	17.22	5.23
	7	7	7	7	18	-	-	-	2.37	2.37	2.37	2.37	5.86	-	-	-	15.34	4.75
	7	7	7	7	14	-	-	-	2.37	2.37	2.37	2.37	4.80	-	-	-	14.28	4.21
	7	7	7	7	12	-	-	-	2.37	2.37	2.37	2.37	3.96	-	-	-	13.44	4.00
6-unit connection	9	9	9	9	12	14	-	-	2.65	2.65	2.65	2.65	3.51	4.25	-	-	18.36	5.98
	9	9	9	9	12	12	-	-	2.70	2.70	2.70	2.70	3.57	3.57	-	-	17.94	5.98
	9	9	9	9	9	14	-	-	2.71	2.71	2.71	2.71	2.71	4.34	-	-	17.88	5.98
	9	9	9	9	9	12	-	-	2.85	2.85	2.85	2.85	2.85	3.77	-	-	18.00	5.87
	9	9	9	9	9	9	-	-	2.89	2.89	2.89	2.89	2.89	2.89	-	-	17.33	5.43
	7	9	9	12	12	12	-	-	2.12	2.68	2.68	3.55	3.55	3.55	-	-	18.12	5.98
	7	9	9	9	12	14	-	-	2.13	2.69	2.69	2.69	3.56	4.31	-	-	18.05	5.98
	7	9	9	9	12	12	-	-	2.17	2.74	2.74	2.74	3.62	3.62	-	-	17.63	5.98

Note: •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

8-unit Multi-split heating

AOYG45LBT8	Combination of Indoor Unit								Heating Operation									
									Heating Capacity									Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
									kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
6-unit connection	7	9	9	9	9	18	-	-	2.12	2.68	2.68	2.68	2.68	5.25	-	-	18.10	5.98
	7	9	9	9	9	12	-	-	2.28	2.87	2.87	2.87	2.87	3.81	-	-	17.57	5.56
	7	9	9	9	9	9	-	-	2.35	2.96	2.96	2.96	2.96	2.96	-	-	17.16	5.23
	7	7	12	12	12	12	-	-	2.11	2.11	3.52	3.52	3.52	3.52	-	-	18.29	5.98
	7	7	9	12	12	14	-	-	2.11	2.11	2.66	3.53	3.53	4.28	-	-	18.23	5.98
	7	7	9	12	12	12	-	-	2.15	2.15	2.71	3.60	3.60	3.60	-	-	17.81	5.98
	7	7	9	9	14	14	-	-	2.12	2.12	2.67	2.67	4.29	4.29	-	-	18.16	5.98
	7	7	9	9	12	18	-	-	2.11	2.11	2.66	2.66	3.52	5.21	-	-	18.27	5.98
	7	7	9	9	12	14	-	-	2.16	2.16	2.72	2.72	3.61	4.37	-	-	17.74	5.98
	7	7	9	9	12	12	-	-	2.27	2.27	2.86	2.86	3.78	3.78	-	-	17.82	5.70
	7	7	9	9	9	18	-	-	2.15	2.15	2.72	2.72	2.72	5.33	-	-	17.79	5.98
	7	7	9	9	9	14	-	-	2.27	2.27	2.86	2.86	2.86	4.60	-	-	17.73	5.56
	7	7	9	9	9	12	-	-	2.30	2.30	2.90	2.90	2.90	3.84	-	-	17.15	5.32
	7	7	9	9	9	9	-	-	2.36	2.36	2.97	2.97	2.97	2.97	-	-	16.61	5.11
	7	7	7	12	14	14	-	-	2.10	2.10	2.10	3.51	4.26	4.26	-	-	18.34	5.98
	7	7	7	12	12	14	-	-	2.14	2.14	2.14	3.58	3.58	4.34	-	-	17.92	5.98
	7	7	7	12	12	12	-	-	2.25	2.25	2.25	3.77	3.77	3.77	-	-	18.06	5.87
	7	7	7	9	14	18	-	-	2.10	2.10	2.10	2.65	4.25	5.19	-	-	18.38	5.98
	7	7	7	9	14	14	-	-	2.15	2.15	2.15	2.71	4.35	4.35	-	-	17.85	5.98
	7	7	7	9	12	18	-	-	2.14	2.14	2.14	2.70	3.57	5.28	-	-	17.96	5.98
	7	7	7	9	12	14	-	-	2.26	2.26	2.26	2.85	3.77	4.57	-	-	17.97	5.70
	7	7	7	9	12	12	-	-	2.29	2.29	2.29	2.89	3.82	3.82	-	-	17.39	5.43
	7	7	7	9	9	18	-	-	2.25	2.25	2.25	2.84	2.84	5.57	-	-	18.03	5.87
	7	7	7	9	9	14	-	-	2.29	2.29	2.29	2.89	2.89	4.64	-	-	17.30	5.32
	7	7	7	9	9	12	-	-	2.35	2.35	2.35	2.97	2.97	3.93	-	-	16.92	5.16
	7	7	7	9	9	9	-	-	2.37	2.37	2.37	2.99	2.99	2.99	-	-	16.07	5.07
	7	7	7	7	14	18	-	-	2.13	2.13	2.13	2.13	4.31	5.26	-	-	18.07	5.98
	7	7	7	7	14	14	-	-	2.25	2.25	2.25	2.25	4.56	4.56	-	-	18.12	5.70
	7	7	7	7	12	18	-	-	2.17	2.17	2.17	2.17	3.62	5.36	-	-	17.65	5.98
	7	7	7	7	12	14	-	-	2.28	2.28	2.28	2.28	3.81	4.62	-	-	17.54	5.43
	7	7	7	7	12	12	-	-	2.35	2.35	2.35	2.35	3.92	3.92	-	-	17.23	5.23
	7	7	7	7	9	24	-	-	2.12	2.12	2.12	2.12	2.67	7.06	-	-	18.19	5.98
	7	7	7	7	9	18	-	-	2.28	2.28	2.28	2.28	2.87	5.63	-	-	17.60	5.56
	7	7	7	7	9	14	-	-	2.35	2.35	2.35	2.35	2.96	4.76	-	-	17.11	5.16
	7	7	7	7	9	12	-	-	2.36	2.36	2.36	2.36	2.98	3.95	-	-	16.38	5.08
	7	7	7	7	9	9	-	-	2.37	2.37	2.37	2.37	2.99	2.99	-	-	15.46	4.75
	7	7	7	7	7	24	-	-	2.14	2.14	2.14	2.14	2.14	7.16	-	-	17.88	5.98
	7	7	7	7	7	18	-	-	2.30	2.30	2.30	2.30	2.30	5.68	-	-	17.18	5.32
	7	7	7	7	7	14	-	-	2.36	2.36	2.36	2.36	2.36	4.78	-	-	16.57	5.08
	7	7	7	7	7	12	-	-	2.37	2.37	2.37	2.37	2.37	3.96	-	-	15.81	4.91
	7	7	7	7	7	9	-	-	2.37	2.37	2.37	2.37	2.37	2.99	-	-	14.84	4.46
	7	7	7	7	7	7	-	-	2.37	2.37	2.37	2.37	2.37	2.37	-	-	14.22	4.21
7-unit connection	7	9	9	9	9	9	9	-	2.12	2.67	2.67	2.67	2.67	2.67	2.67	-	18.16	5.98
	7	7	9	9	9	9	12	-	2.10	2.10	2.65	2.65	2.65	2.65	3.51	-	18.33	5.98
	7	7	9	9	9	9	9	-	2.15	2.15	2.71	2.71	2.71	2.71	2.71	-	17.85	5.98
	7	7	7	9	9	9	14	-	2.09	2.09	2.09	2.63	2.63	2.63	4.23	-	18.40	5.98
	7	7	7	9	9	9	12	-	2.13	2.13	2.13	2.69	2.69	2.69	3.56	-	18.02	5.98
	7	7	7	9	9	9	9	-	2.25	2.25	2.25	2.84	2.84	2.84	2.84	-	18.11	5.87
	7	7	7	7	9	12	12	-	2.11	2.11	2.11	2.11	2.67	3.53	3.53	-	18.20	5.98
	7	7	7	7	9	9	14	-	2.12	2.12	2.12	2.12	2.68	2.68	4.30	-	18.13	5.98
	7	7	7	7	9	9	12	-	2.16	2.16	2.16	2.16	2.73	2.73	3.61	-	17.71	5.98
	7	7	7	7	9	9	9	-	2.27	2.27	2.27	2.27	2.87	2.87	2.87	-	17.68	5.56
	7	7	7	7	7	12	14	-	2.10	2.10	2.10	2.10	2.10	3.52	4.26	-	18.31	5.98
	7	7	7	7	7	12	12	-	2.14	2.14	2.14	2.14	2.14	3.58	3.58	-	17.89	5.98
	7	7	7	7	7	9	18	-	2.10	2.10	2.10	2.10	2.10	2.65	5.19	-	18.35	5.98
	7	7	7	7	7	9	14	-	2.15	2.15	2.15	2.15	2.15	2.71	4.36	-	17.82	5.98
	7	7	7	7	7	9	12	-	2.26	2.26	2.26	2.26	2.26	2.85	3.78	-	17.93	5.70
	7	7	7	7	7	9	9	-	2.29	2.29	2.29	2.29	2.29	2.89	2.89	-	17.26	5.32
	7	7	7	7	7	7	18	-	2.13	2.13	2.13	2.13	2.13	2.13	5.26	-	18.04	5.98
	7	7	7	7	7	7	14	-	2.25	2.25	2.25	2.25	2.25	2.25	4.56	-	18.08	5.70
	7	7	7	7	7	7	12	-	2.28	2.28	2.28	2.28	2.28	2.28	3.81	-	17.50	5.43
	7	7	7	7	7	7	9	-	2.35	2.35	2.35	2.35	2.35	2.35	2.96	-	17.06	5.16
	7	7	7	7	7	7	7	-	2.36	2.36	2.36	2.36	2.36	2.36	2.36	-	16.52	5.08
8-unit connection	7	7	7	7	7	9	9	9	2.09	2.09	2.09	2.09	2.09	2.64	2.64	2.64	18.40	5.98
	7	7	7	7	7	7	9	9	2.12	2.12	2.12	2.12	2.12	2.12	2.68	2.68	18.10	5.98
	7	7	7	7	7	7	7	12	2.11	2.11	2.11	2.11	2.11	2.11	2.11	3.52	18.28	5.98
	7	7	7	7	7	7	7	9	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.72	17.79	5.98
	7	7	7	7	7	7	7	7	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	18.04	5.70

Note: •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

Feature Explanation & Summary

Type			Wall Mounted					Wall Mounted		Cassette			Duct						Floor	Floor/ Ceiling	Ceiling
Series			Designer Series		Standard Series	Designer Series	Standard Series	Standard Series		Compact 4-way Flow Grid type Series	Compact 4-way Flow Series	4-way Flow Series	Mini (With drain pump)		Slim (With drain pump)		Medium Static Pressure				
																					
Model No.			ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, ASYG 07/09/12/14 KETA-B	ASYG 07/09/12/14 KMCC	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18LFCA, ASYG 24LFCC	ASYG 07/09/12/14 KMCC	AUXG 07/09/12/ 14/18/22/24 KVLA	AUYG 07/09/ 12/14/18 LVLB, AUYG 22/24LVLA	AUYG 30/36LRLE, AUYG 36/45LRLA	ARXG 07/09/12/14 KSLAP	ARYG 07/09/ 12/14/18 LSLAP	ARXG 07/09/ 12/14/18 KLLAP	ARYG 07/09/ 12/14/18 LLTB	ARXG 22/24KMLA	ARYG 22/24/36/45 LMLA, ARYG 30/36LMLE	AGYG 09/12/14 LVCA	ABYG 14/18LVTB, ABYG 22/24LVTA	ABYG 30/36LRTE, ABYG 36/45LRTA
Refrigerant			R32	R32	R32	R410A		R410A		R32	R410A		R32	R410A	R32	R410A	R32	R410A	R410A		
Energy Saving Function	Save human sensor	Human sensor detects the movement of people in the room and judges whether the energy saving operation.	●																		
	Economy mode	Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.	○	○	○	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○
	Set temperature auto return	The setting temperature automatically returns to the previously set temperature.	○	○	○	○	○	○	○	●	○	○	●	●	○	○	○	○	○	○	○
Comfortable Function	Power diffuser	An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs					●	●													
	Powerful mode	Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.	●	●	●	●	●		●												
	10°C HEAT operation	The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●
	Low noise mode	Sound noise level of outdoor unit can be selected.	●	●	●	●	●		●									○ (45)(36LMLA)			○ (45/54) (36LRTA)
	Auto-changeover	The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	The up/down flaps automatically swing up and down.	●	●	●	●	●		●	●	●	●	○	○	○	○			●		
	Double swing automatic	Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.						●												●	●
	Automatic fan speed	The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct	Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.									○	●					●	●			●
	Fresh air intake	Fresh air can be taken in by a fan which can be connected using external control unit.									○	○			○	○	○	○			○
	Connectable distributing duct	Systems are capable of attaching Locally purchased branch ducts distributing the airflow.															●	●			
Convenient Function	Auto off timer	Automatically stops operation when a fixed time has elapsed from the start of operation.	○	○	○	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○
	Sleep timer	The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●
	Program timer	This digital timer allows selection of one of four options: ON, OFF, ON › OFF or OFF › ON.	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●
	Weekly timer	Different ON-OFF times can be set for each day.	●	●	○	●			○				●	●							
	Weekly + setback timer	Weekly + Setback timer can set temperature for two times spans and for each day of the week.	○	○	○	○	○	○	○	○	○	●			●	●	●	●	○	○	○
	Filter sign	Indicates the filter cleaning period by lamp.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External error output		○	○	○	○	○	○	○				○	○							
	External ON/OFF input		○	○	○	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○
	Wireless LAN control	The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Clean Function	Ion deodorization filter	The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.	○	○	○	●	●	●	○										●		
	Apple-catechin filter	The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.	○	○	○	●	●	●	○										●		
	Long life filter																○	○	●		
	Washable panel	Since the front panel is easy to remove, maintenance is also easy.					●	●													
Installation	Drain pump as standard									●	●	●	●	●	●	●	○	○			○
	Blue fin							● (30)				● (45/54)						● (45)			● (45)

○ : Optional function

Light Commercial & Commercial, Residential

VRF

AIRSTAGE™ VRF systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

VRF Outdoor Units

AIRSTAGE™ J Series
Heat Pump for Small Capacity Type

AIRSTAGE™ V Series
Heat Recovery Modular Type

Heat Pump Modular Type

VRF INDOOR UNITS

AIRSTAGE™

VRF

Light Commercial & Commercial, Residential

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for VARIABLE REFRIGERANT FLOW SYSTEMS.
Check ongoing validity of certificate:
www.eurovent-certification.com
* Models so marked are not ECC certified.

FUJITSU GENERAL LIMITED

AIRSTAGE™ J Series Overview

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and hotels to large stores, houses.

NEW

Max. 18 HP Heat Pump

AIRSTAGE™ J-IVL

J-IVL is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 42* indoor units with newly added 14/16/18 HP models. 14/16/18 HP models are also ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

Slim Outdoor Unit

Although the new 14/16/18 HP models that can handle slightly larger capacity requirements, they have a slim depth of 480 mm. These models can be introduced and installed even in limited spaces.

Small room application

Up to 30-42 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

Top Class Low Operating Sound

Top class low operating sound is achieved. Highly suited for densely populated areas thanks to their low operating sound.


8-12 HP models


14/16/18 HP models

NEW

Max. 6 HP Heat Pump

AIRSTAGE™ J-IV

J-IV allows the condenser to connect up to 13 indoor units. This model is suitable for small buildings that bring together small stores.

High Energy Efficiency

Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

Flexible systems for small- and medium-size buildings air conditioning

Space saving design and long piping design allow flexible installations on the roofs or balconies of small and medium-size buildings. Multiple indoor units of various capacities and types can be connected.

NEW

Max. 6 HP Heat Pump, Compact Design

AIRSTAGE™ J-IVS

J-IVS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist-high windows. This model is also ideal for large houses, retail stores and other properties.

Space saving and low sound level design

Economical individual air conditioning is achieved by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

Flexible systems for homes, shops, small-size buildings air conditioning

Due to compact size design and flexible piping design, J-IVS Series can be installed easily at a place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.

AIRSTAGE™ V Series Overview

AIRSTAGE™ V Series Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

NEW

Max. 48 HP Heat Recovery

AIRSTAGE™ VR-IV

Smart and cutting-edge design.
Extensive lineup from 8 HP to 48 HP in 2 HP increment.
Connectable indoor unit capacity ratio up to 150%

Simultaneous cooling and heating operation using 1 refrigerant system

Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in rooms with Different temperature requirements.

Annual cooling operation

Usage of annual cooling operation for the rooms and other spaces that require constant temperature control throughout the year.

Handles changes in the temperature difference

The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

Max. 54 HP Heat Pump

AIRSTAGE™ V-III

Smart and cutting-edge design.
Extensive lineup from 8 HP to 54 HP in 2 HP increment.
Connectable indoor unit capacity ratio up to 150%

Excellent energy saving

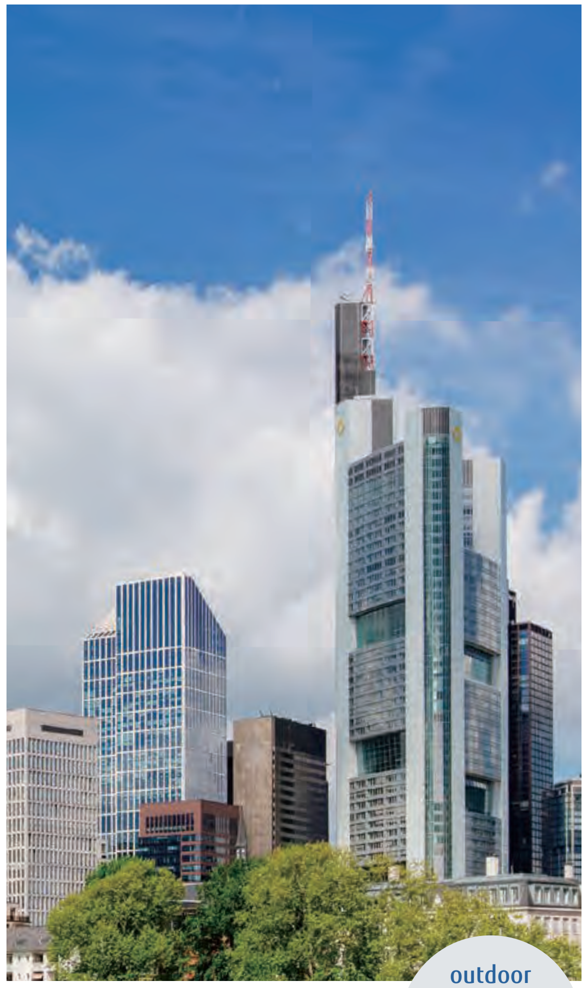
Heat pump inverter type achieves high energy savings for individual cooling and heating operation by all inverter technology for seasonal efficiency.

High design flexibility for various building air conditioning

High design flexibly meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

Easy installation and maintenance

The flexible communication method and piping connections make installation and maintenance easy even for large systems.



outdoor temperature
Up to 52°C
at Cooling

Max. 54 HP Heat Pump

AIRSTAGE™ V-III

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 130%

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion

TROPICAL SPEC

VRF Outdoor Units Lineup

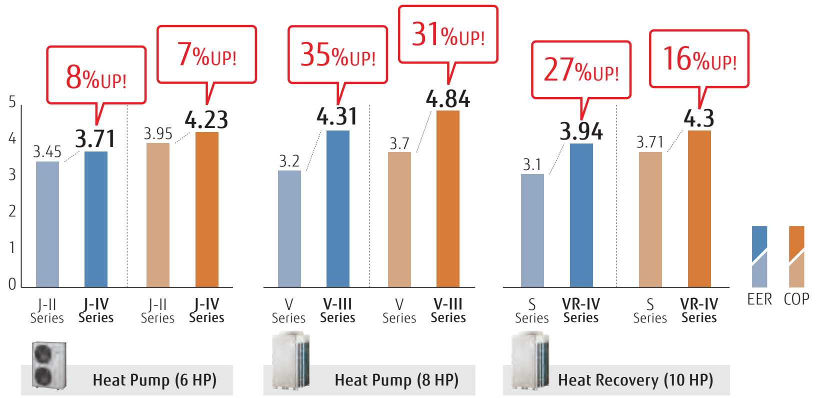
Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.0-50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0
HP		4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
NEW J-IVL Series					 AJY072 LELBH	 AJY090 LELBH	 AJY108 LELBH	 AJY126 LELBH	 AJY144 LELBH	 AJY162 LELBH																		
NEW J-IV Series		 AJY040 LBLBH, AJY040 LELBH	 AJY045 LBLBH, AJY045 LELBH	 AJY054 LBLBH, AJY054 LELBH																								
NEW J-IVS Series		 AJY040 LCLBH	 AJY045 LCLBH	 AJY054 LCLBH																								
NEW VR-IV Series Heat Recovery	Space Saving Set Model				 AJY072 GALBH	 AJY090 GALBH	 AJY108 GALBH	 AJY126 GALBH	 AJY144 GALBH	 AJY162 GALBH	 AJY180 GALBH	 AJY198 GALBH	 AJY216 GALBH	 AJY234 GALBH	 AJY252 GALBH	 AJY270 GALBH	 AJY288 GALBH	 AJY306 GALBH	 AJY324 GALBH	 AJY342 GALBH	 AJY360 GALBH	 AJY378 GALBH	 AJY396 GALBH	 AJY414 GALBH	 AJY432 GALBH			
	Energy Efficiency Set Model								 AJY144 GALBHH			 AJY198 GALBHH	 AJY216 GALBHH	 AJY234 GALBHH	 AJY252 GALBHH	 AJY270 GALBHH	 AJY288 GALBHH	 AJY306 GALBHH	 AJY324 GALBHH	 AJY342 GALBHH	 AJY360 GALBHH	 AJY378 GALBHH	 AJY396 GALBHH					
V-III Series Heat Pump	Space Saving Set Model				 AJY072 LALBH	 AJY090 LALBH	 AJY108 LALBH	 AJY126 LALBH	 AJY144 LALBH	 AJY162 LALBH	 AJY180 LALBH	 AJY198 LALBH	 AJY216 LALBH	 AJY234 LALBH	 AJY252 LALBH	 AJY270 LALBH	 AJY288 LALBH	 AJY306 LALBH	 AJY324 LALBH	 AJY342 LALBH	 AJY360 LALBH	 AJY378 LALBH	 AJY396 LALBH	 AJY414 LALBH	 AJY432 LALBH	 AJY450 LALBH	 AJY468 LALBH	 AJY486 LALBH
	Energy Efficiency Set Model								 AJY144 LALBHH	 AJY162 LALBHH	 AJY180 LALBHH		 AJY216 LALBHH	 AJY234 LALBHH	 AJY252 LALBHH	 AJY270 LALBHH	 AJY288 LALBHH	 AJY306 LALBHH	 AJY324 LALBHH	 AJY342 LALBHH	 AJY360 LALBHH	 AJY378 LALBHH	 AJY396 LALBHH	 AJY414 LALBHH				
V-III Tropical Series Heat Pump	Space Saving Set Model				 AJY072 LNLBH	 AJY090 LNLBH	 AJY108 LNLBH	 AJY126 LNLBH	 AJY144 LNLBH	 AJY162 LNLBH	 AJY180 LNLBH	 AJY198 LNLBH	 AJY216 LNLBH	 AJY234 LNLBH	 AJY252 LNLBH	 AJY270 LNLBH	 AJY288 LNLBH	 AJY306 LNLBH	 AJY324 LNLBH	 AJY342 LNLBH	 AJY360 LNLBH	 AJY378 LNLBH	 AJY396 LNLBH	 AJY414 LNLBH	 AJY432 LNLBH	 AJY450 LNLBH	 AJY468 LNLBH	 AJY486 LNLBH
	Energy Efficiency Set Model								 AJY144 LNLBHH	 AJY162 LNLBHH	 AJY180 LNLBHH		 AJY216 LNLBHH	 AJY234 LNLBHH	 AJY252 LNLBLHH	 AJY270 LNLBHH	 AJY288 LNLBHH	 AJY306 LNLBHH	 AJY324 LNLBHH	 AJY342 LNLBHH	 AJY360 LNLBHH	 AJY378 LNLBHH	 AJY396 LNLBHH	 AJY414 LNLBHH				

Feature

High Efficiency

Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger

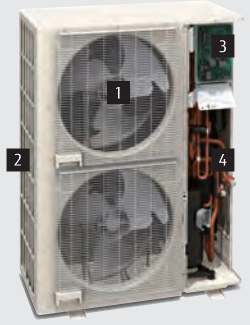
DC twin rotary compressor



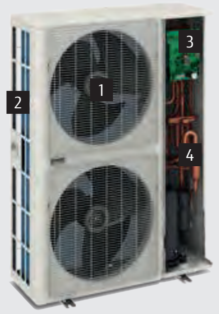
ALL DC

High efficiency design with top class SEER/SCOP

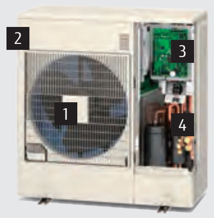
All VRF Series including J-IVL Series have DC technology to achieve the high efficiency operation. This enhances the durability and reliability of VRF Series.



J-IVL Series

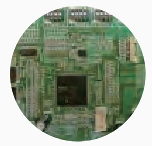


J-IV Series

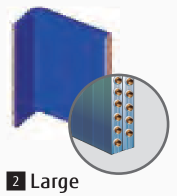


J-IVS Series

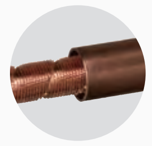
1 DC fan motor



3 DC invertor control



2 Large heat exchanger



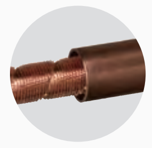
4 Subcool heat exchanger

V Series

1 3 phase DC fan motor

3 Sine-wave DC invertor control

2 Large heat exchanger

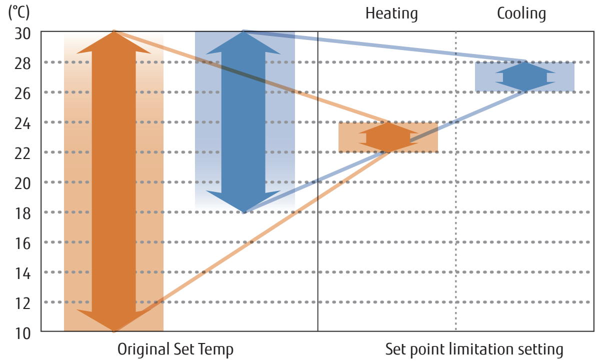


4 Subcool heat exchanger

Operation Performance is Efficiently Controlled.

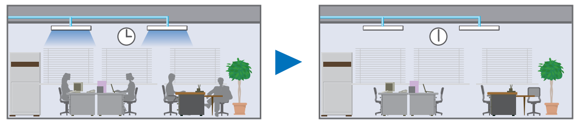
Room temperature set point limitation

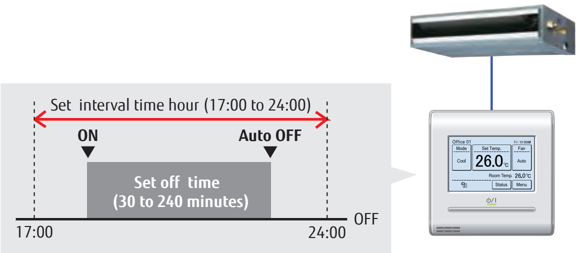
The minimum and maximum temperature ranges can be limited, which provides further energy saving while maintaining the comfort of the occupants.



Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore a new wired remote controller can set up the interval of time in case operation stops.

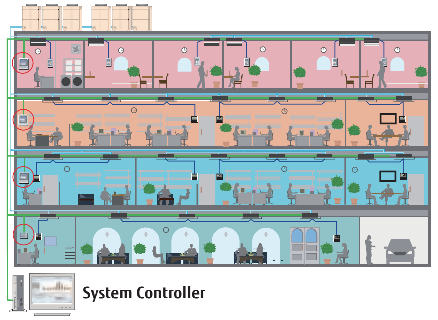




Energy saving management

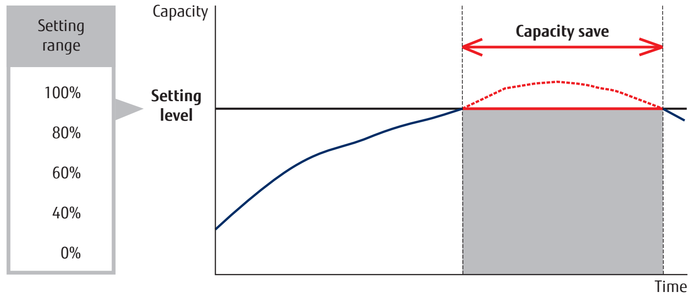
A variety energy saving operations can be set and managed depending on the season, weather, and time period.
Excellent energy saving operation is performed by using System Controller.

Screen image is Energy manager software (Option)



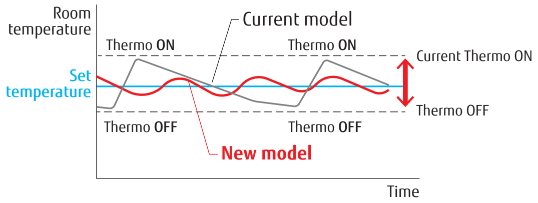
Capacity save operation

Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



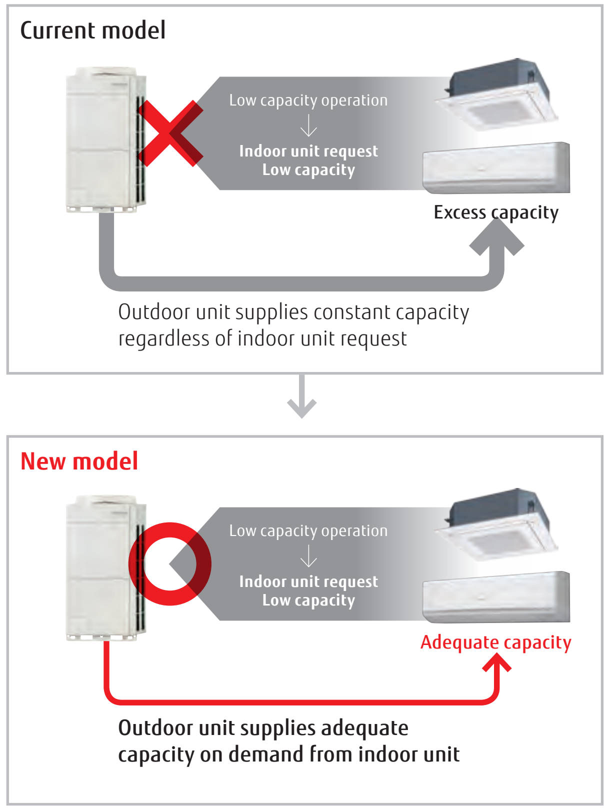
New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.

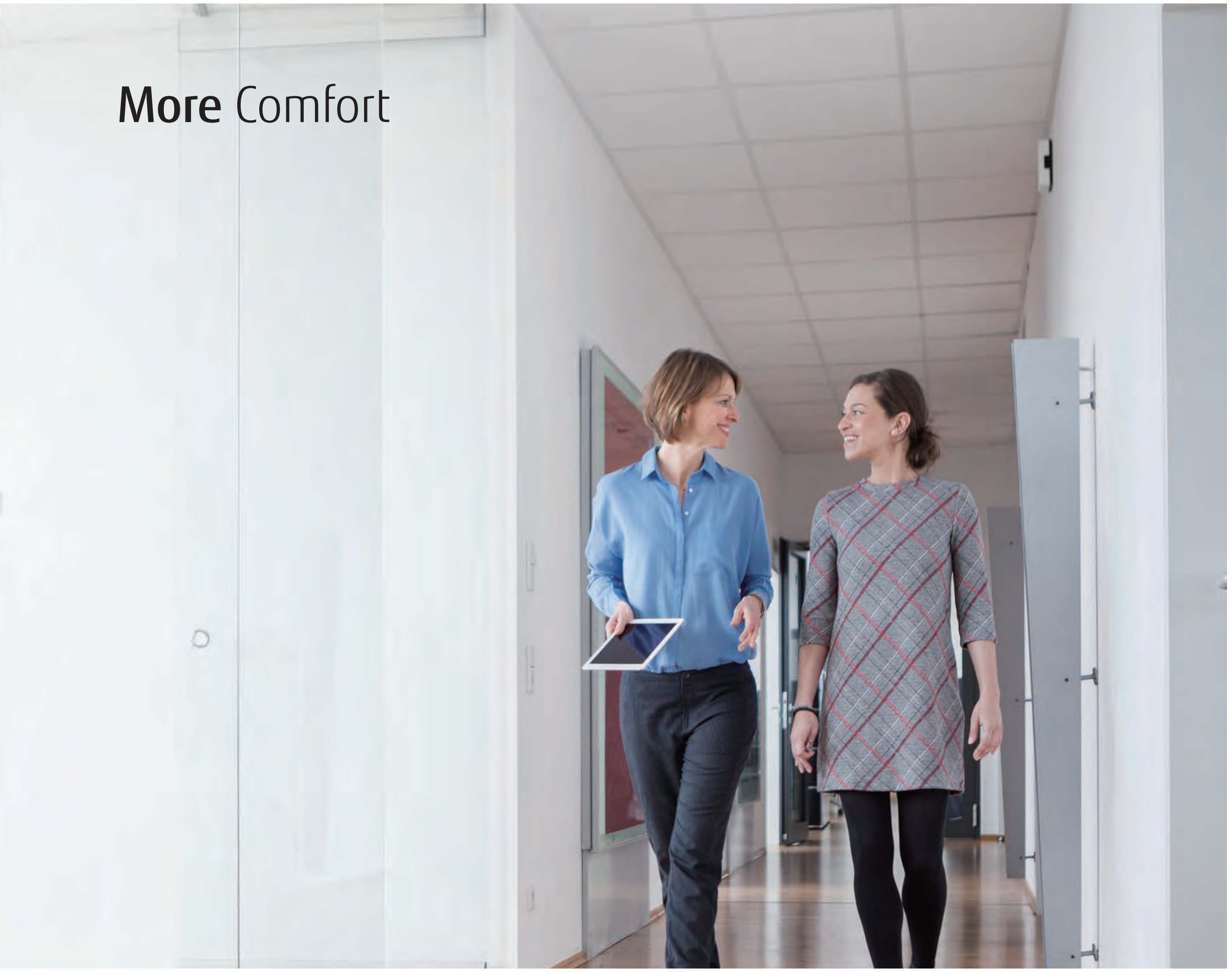


Current refrigerant control
Thermostat-ON/OFF occurs frequently.
→ The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

New refrigerant control
Room temperature keep target temperature since thermostat-ON/OFF occurs less than Current control. Energy saving is good since compressor continues operation for a longer time than Current control.

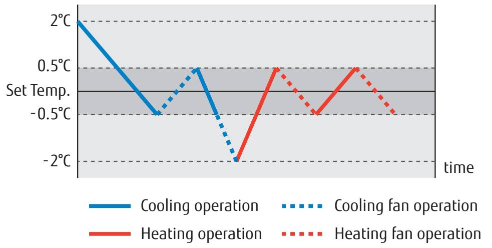


More Comfort



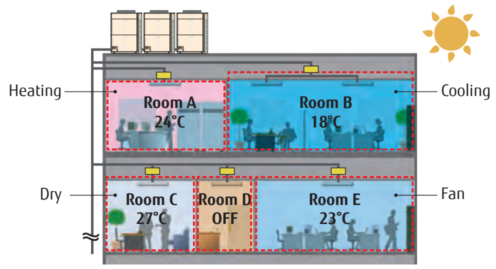
Auto changeover function

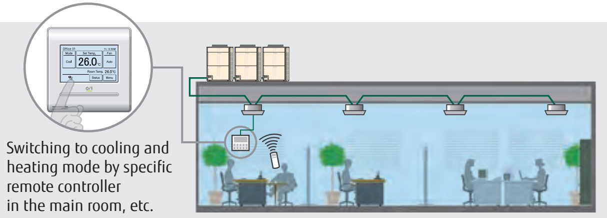
At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.

Automatic cooling/heating operation for each room is possible

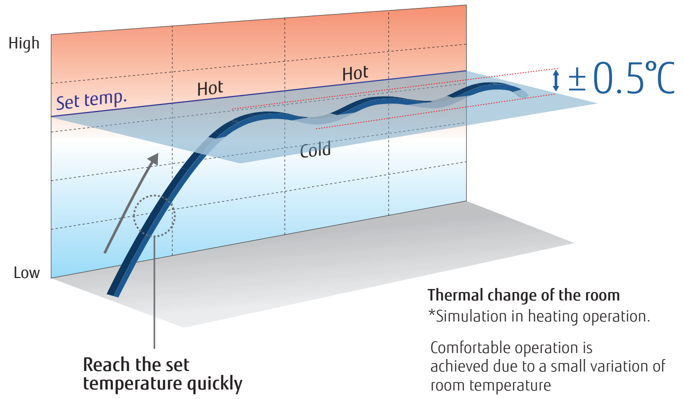




Switching to cooling and heating mode by specific remote controller in the main room, etc.

Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5℃.

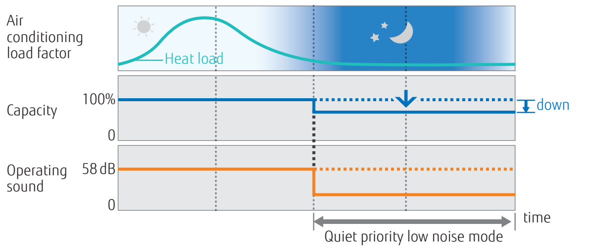


Quiet operation

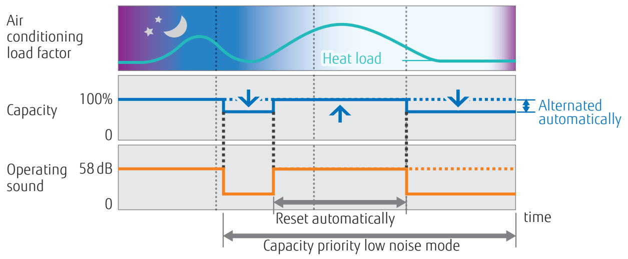
Quiet operation

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.

Quiet priority setting

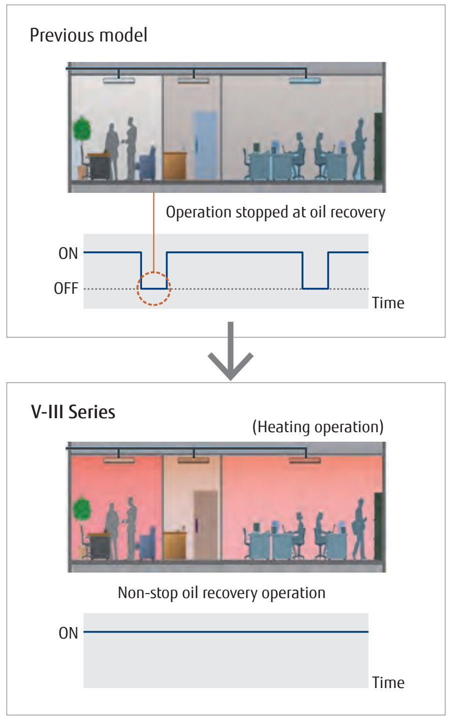


Capacity priority setting



Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Low sound level design

Small capacity indoor units respond to the demands of several applications.

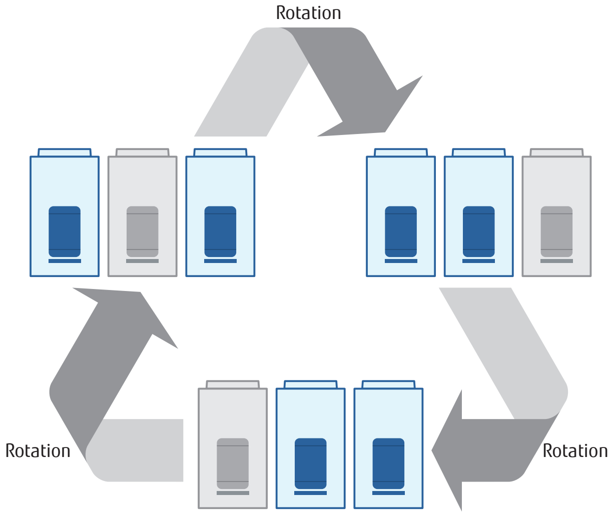
These models will be able to offer greater audibility comfort by operating at super low sound levels.
Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.

Small capacity indoor unit

High Reliability

Outdoor unit rotational operation

The compressor starting order is rotated so that the running time is shared.

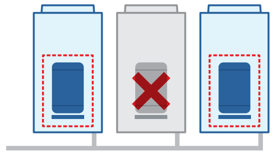


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

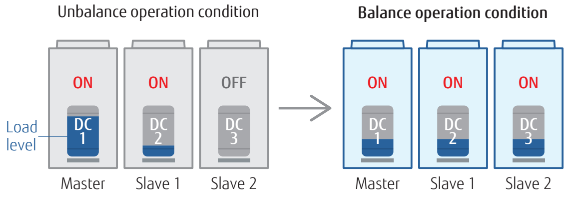
If one compressor fails, backup operation will be performed by the remaining compressors*.

*: Note: Backup operation may not be possible depending on the trouble state.



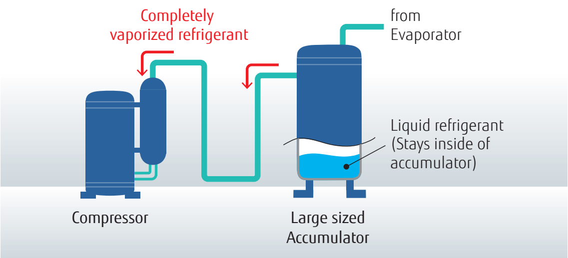
Advanced refrigerant control

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



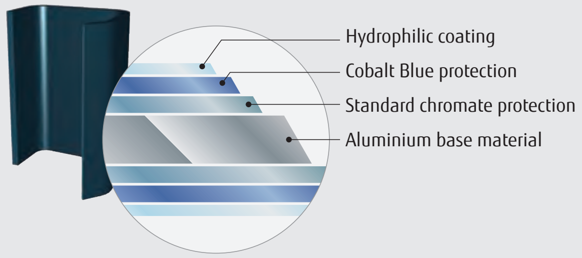
Liquid flow back protection

By adopting a large sized accumulator, not completely vaporised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.

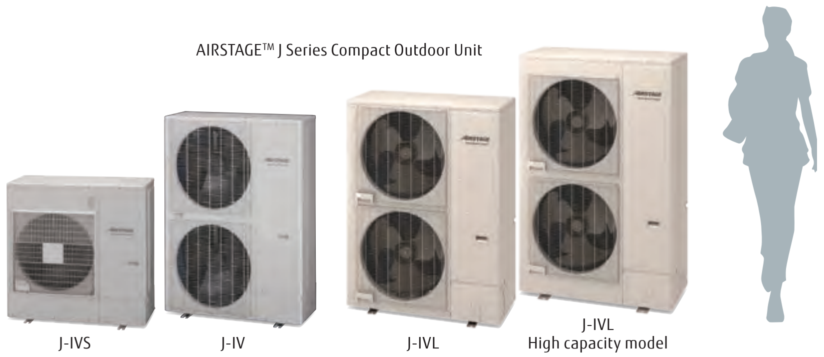


Design Flexibility

Top class Compact design

Compact outdoor unit can be achieved at the top class in the industry by optimal airflow structure design. (Up to 18 HP)

AIRSTAGE™ J Series Compact Outdoor Unit

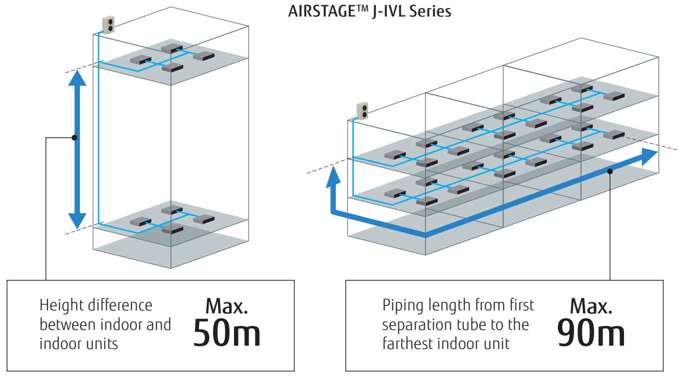


Long piping design

Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with high distance

(AIRSTAGE™ J-IVL Series)

AIRSTAGE™ J-IVL Series

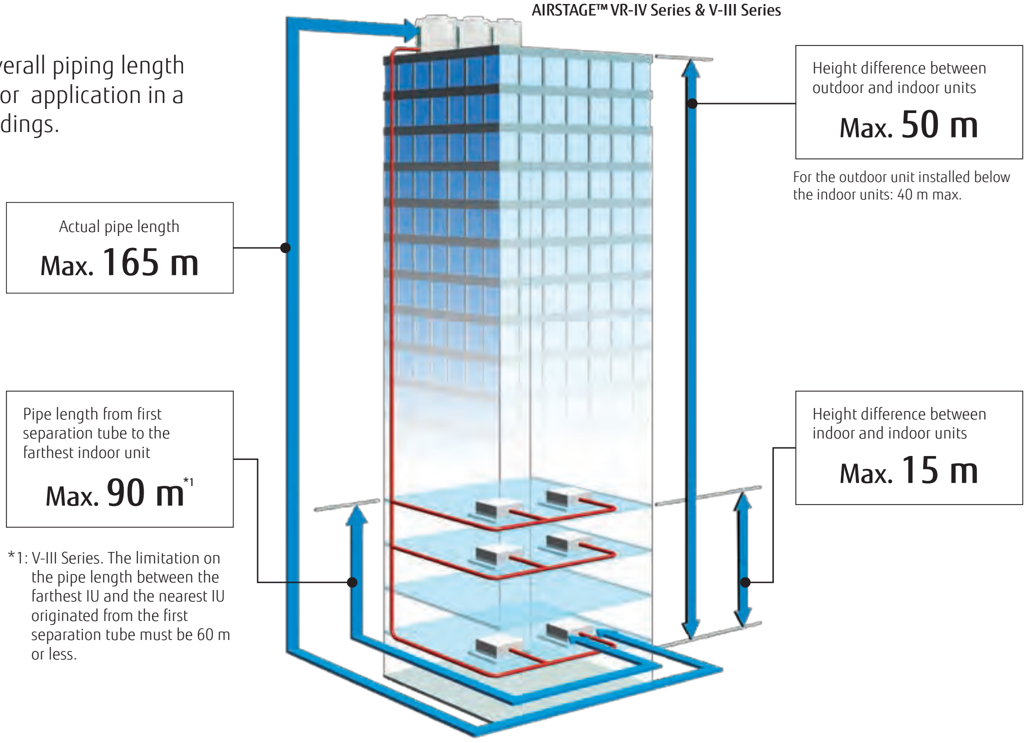

Height difference between indoor and indoor units Max. 50m

Piping length from first separation tube to the farthest indoor unit Max. 90m

Overall piping length Max. 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.

AIRSTAGE™ VR-IV Series & V-III Series


Height difference between outdoor and indoor units Max. 50 m

For the outdoor unit installed below the indoor units: 40 m max.

Actual pipe length Max. 165 m

Pipe length from first separation tube to the farthest indoor unit Max. 90 m[1]

Height difference between indoor and indoor units Max. 15 m

[1] V-III Series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
	AIRSTAGE™ J-IVL Series 14/16/18 HP Heat Pump type	50% to 150%*2	up to 42*4
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150%*2	up to 30*5
	AIRSTAGE™ J-IV Series Heat Pump type	50% to 150%*2	up to 14*6
	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130%*2	up to 13
	AIRSTAGE™ VR-IV Series Heat Recovery Modular type	25%*7 to 150%*2	up to 64
	AIRSTAGE™ V-III Series Heat Pump Modular type	50% to 150%*3	up to 64

*2: Conditions of maximum connectable indoor unit capacity ratio is as the chart.

*3: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

*4: J-IVL Series 18 HP model only.

*5: J-IVL Series 12 HP model only.

*6: J-IV Series 6 HP model only.

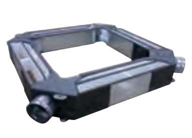
*7: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Designed for low refrigerant charge

Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².

Various optional parts

- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit


Fresh Air Intake kit


EEV unit

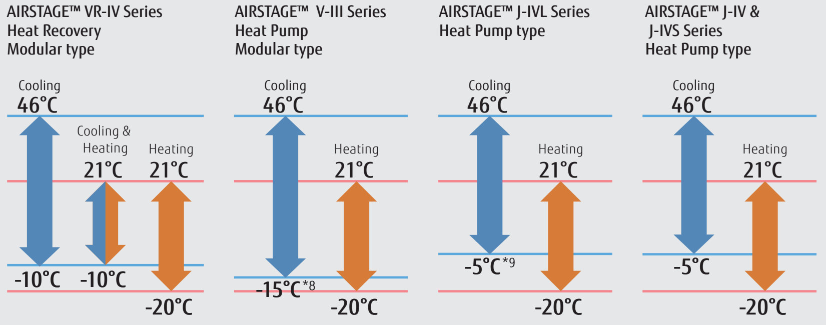

Control unit

Low ambient operation

Refrigeration cycle technology allows cooling operation even at -15°C.

Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

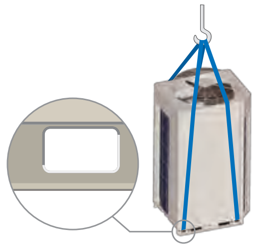


*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

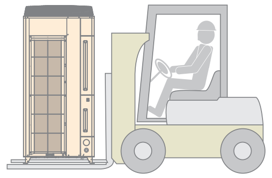
*9: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15°C to 46°C.

Easy Installation

Easily transported



Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used

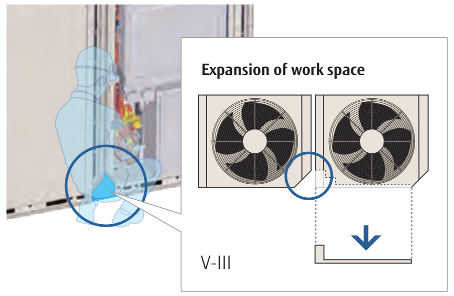


Transporting by forklift
Transport with forklift is possible.

Can be transported in a small elevator

Easy access

By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.



J-IVL

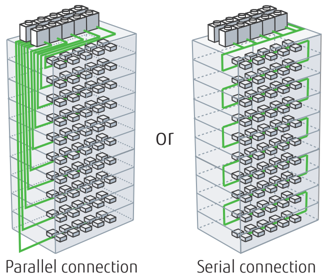
Reduced installation intervals by front access

Flexible piping connection

Piping and wiring are available to the front, left right and bottom.

Simple wiring work

Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

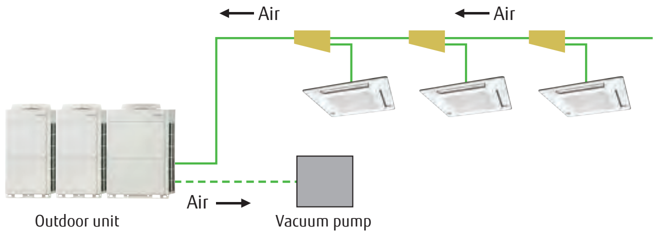


Up to maximum length
3,600 m

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

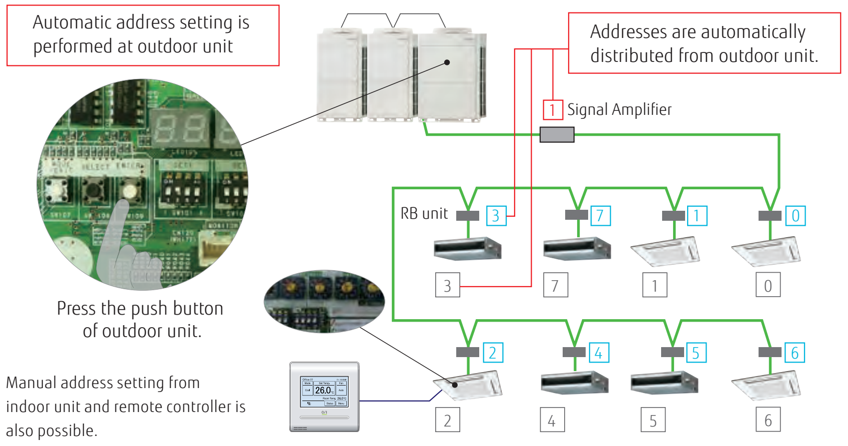
Easy evacuation - using vacuum mode function

The vacuum mode function enables all expansion valves of indoor units to be fully opened, making it easy to evacuate all the air inside pipe lines and indoor units.



Automatic address setting

The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.



Automatic address setting is performed at outdoor unit

Addresses are automatically distributed from outdoor unit.

Press the push button of outdoor unit.

Manual address setting from indoor unit and remote controller is also possible.

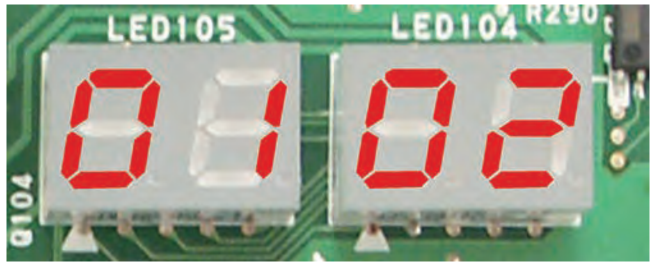
Easy commissioning by Service Tool

Service tools can be used to check the refrigerant temperature, pressure, and the operating status of the electronic expansion valve, making it easy to determine whether the units are connected properly.

Easy Service & Maintenance

Design for Easy Maintenance

7 segment LED is used to make it easy to check the details about the function setting status, refrigerant temperature, pressure, compressor operation time, and other factors for each model to make it easy to perform self-diagnostics.

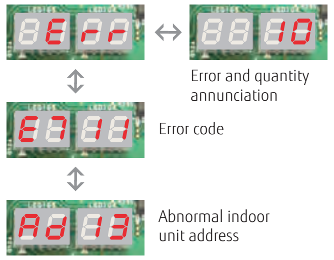


Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

Error status can be checked easily by outdoor unit display

- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit



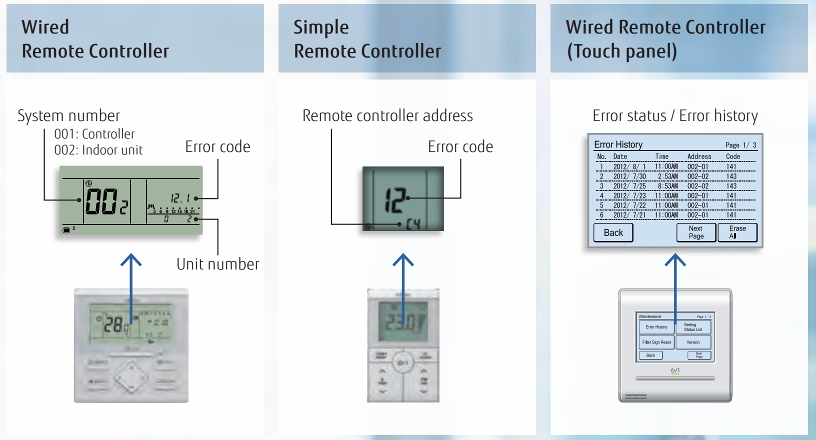
- Error status can be checked easily by outdoor unit display

Movable PCB panel

Easier for maintenance work behind the PCB

Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.



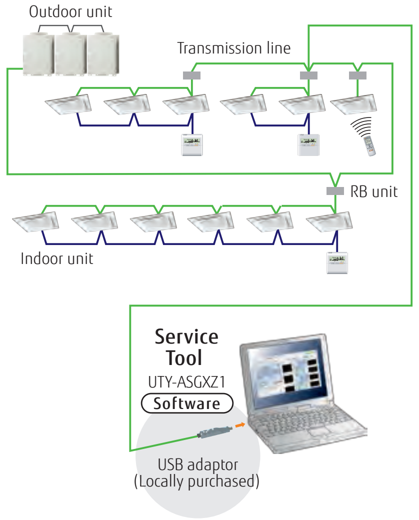
Error History Page 1/ 3

No.	Date	Time	Address	Code
1	2012/ 8/ 1	11:00AM	002-01	141
2	2012/ 7/30	2:53AM	002-02	143
3	2012/ 7/25	8:53AM	002-02	143
4	2012/ 7/23	11:00AM	002-01	141
5	2012/ 7/22	11:00AM	002-01	141
6	2012/ 7/21	11:00AM	002-01	141

Error diagnosis by Service Tool

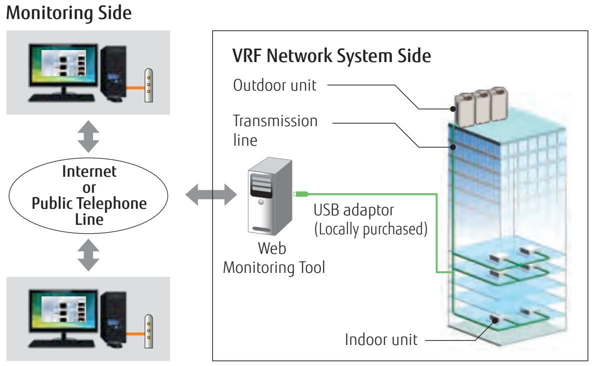
Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can also be recorded.



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.
The operating VRF network system in the building can be monitored real time over the Internet.



NEW

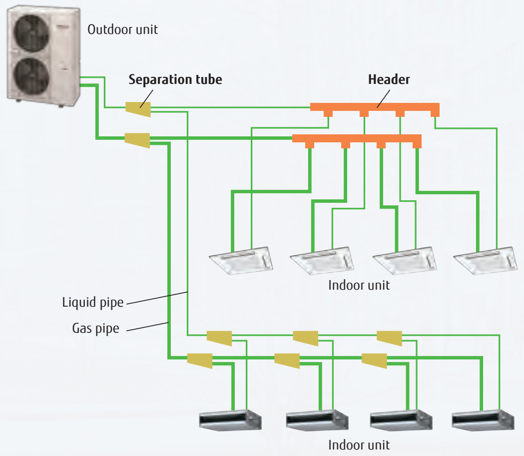
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVL

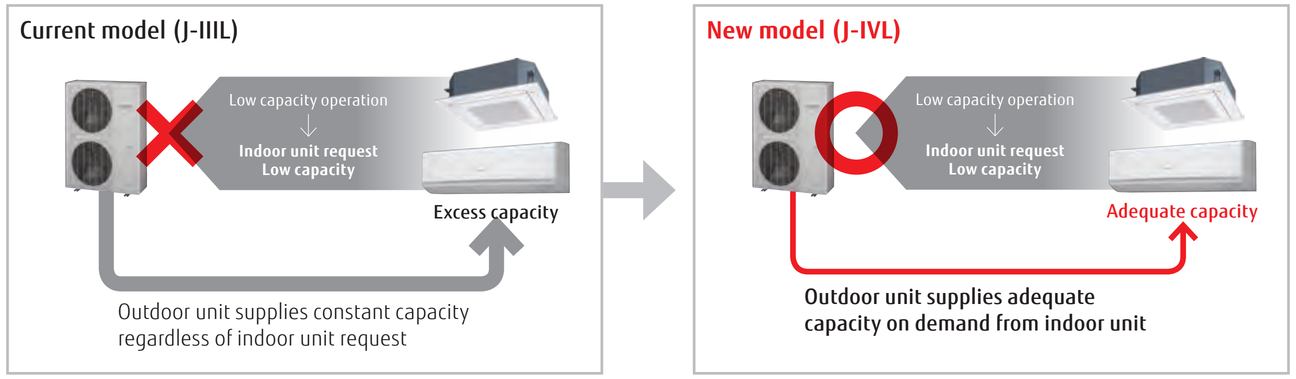
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



High Static Pressure

External static pressure is available up to 60Pa for 14/16/18HP.
(30Pa for 8/10HP, 40Pa for 12HP)

* Capacities are slightly decreased for rated values during high static pressure operation.

Advanced high efficiency technology

∅570 mm

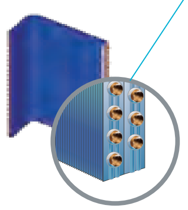
Large propeller fan

The high efficiency and the low sound operation are mutually realized by reduction of a draft loss which are enabled by the Fujitsu General's original blade design and a large diameter propeller fan.

DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

Large heat exchanger



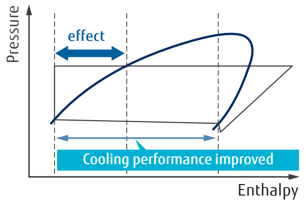
Heat exchange performance is substantially improved by mounting of 2.6-row large heat exchanger.

DC inverter control

Efficiency is improved by mounting of new active filter module.

Subcool heat exchanger

Cooling performance is improved by mounting of dual tube heat exchanger.



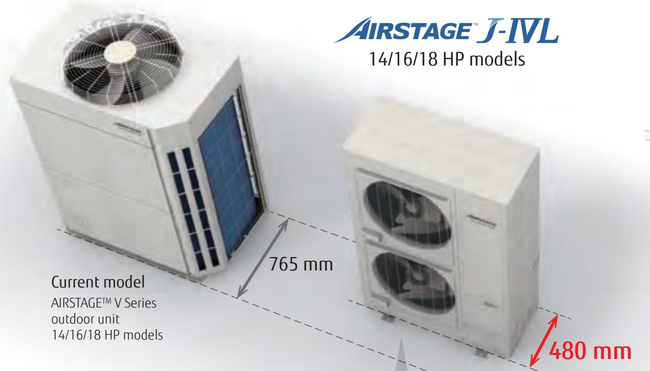
Scroll compressor

The equipment of scroll compressor with a wide range of rotational frequency from 15 to 130 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.

Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

Image: 8/10/12 HP models

Slim & Compact Design



Depth difference
-285 mm
J-IVL all models
Compared with current all models

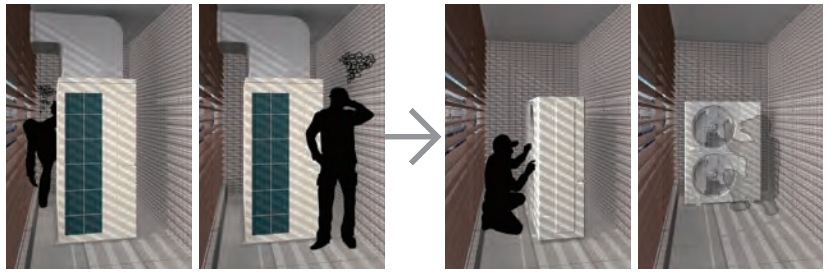
Installation space
-45% !
Compared with current 14/16/18 HP models

Weight
-58 kg !
Compared with current 18 HP model

Height difference
-262 mm
Compared with current 8 HP model

Installation space
-26% !
Compared with current 8/10 HP models

Various Installation



AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

In house installation

Low noise in consideration for the nearby residents

This model is front air discharge type and about 1000 mm wide, so flexible installation is possible even at narrow in house space.

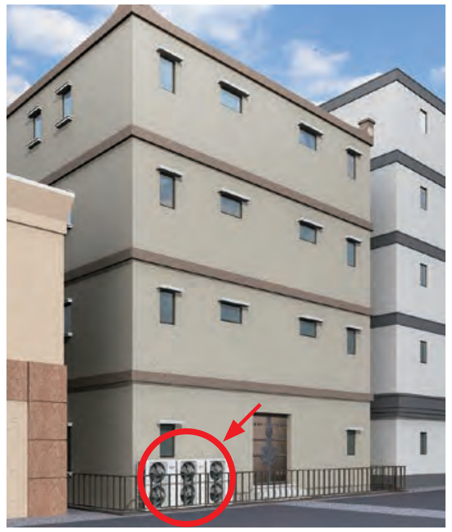
AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

Narrow space behind building

Space saving

Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.



AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

Installation at back street of building

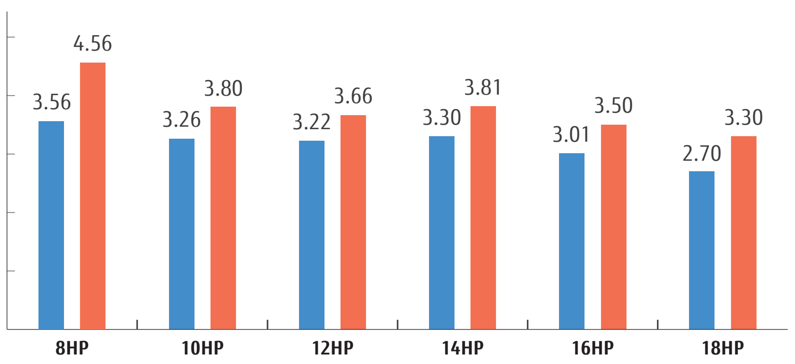
Flexible installation

This model is front air discharge type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.

Efficiency in actual operation

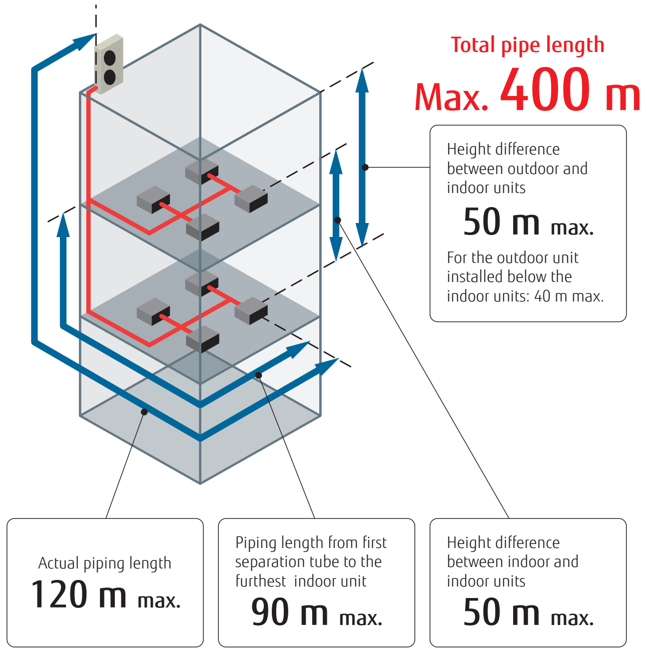
Top class high EER/COP(Max. Heating) is achieved for all models by large heat exchanger, high efficient Scroll compressor, and our own technologies.

High EER / COP (Max. Heating)



Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.



Total pipe length
Max. 400 m

Height difference between outdoor and indoor units
50 m max.
For the outdoor unit installed below the indoor units: 40 m max.

Actual piping length
120 m max.

Piping length from first separation tube to the furthest indoor unit
90 m max.

Height difference between indoor and indoor units
50 m max.

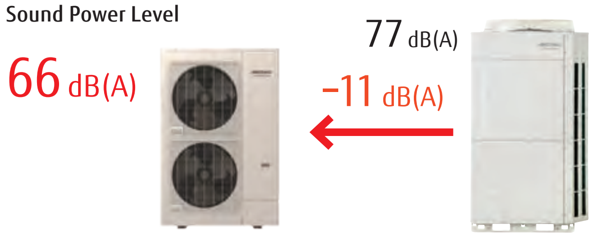
Up to 42 units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 42 units. *: 18 HP model

Top Class Low Operating Sound

Top class low operating sound is achieved. Highly suited for densely populated areas thanks to their low operating sound.

Sound Power Level



J-IVL (8HP)

Current model (8HP)

8,10,12 HP: AJY072LELBH / AJY090LELBH / AJY108LELBH
14,16,18 HP: AJY126LELBH / AJY144LELBH / AJY162LELBH

8, 10, 12 HP

14, 16, 18 HP

Specifications

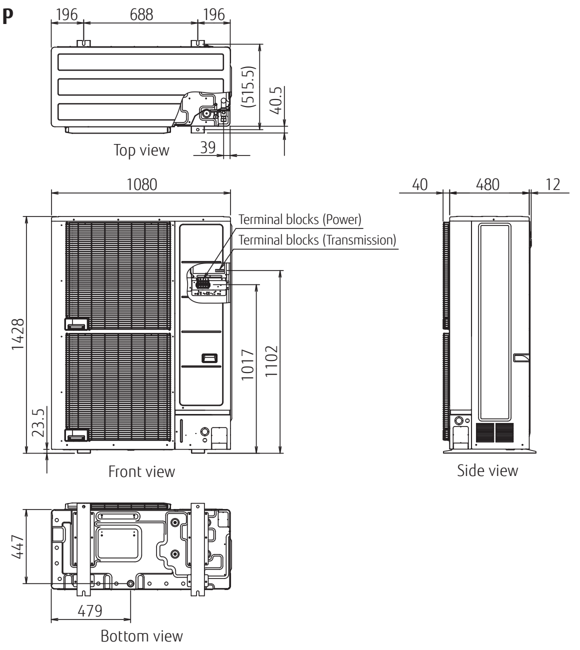
Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.0
	Max Heating		25.0	31.5	37.5	45.0	50.0	55.0
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Nominal Heating		4.65	6.61	8.18	9.71	11.81	13.66
	Max Heating		5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating		4.82	4.24	4.10	4.12	3.81	3.66
	Max Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m^3/h	8,400	9,000	11,000/12,100	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
	Heating		54/—	57/—	62/—	63/—	65/—	68/—
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	400
Max. height difference			50/40 (Outdoor unit: Upper/Lower)					
Operation range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

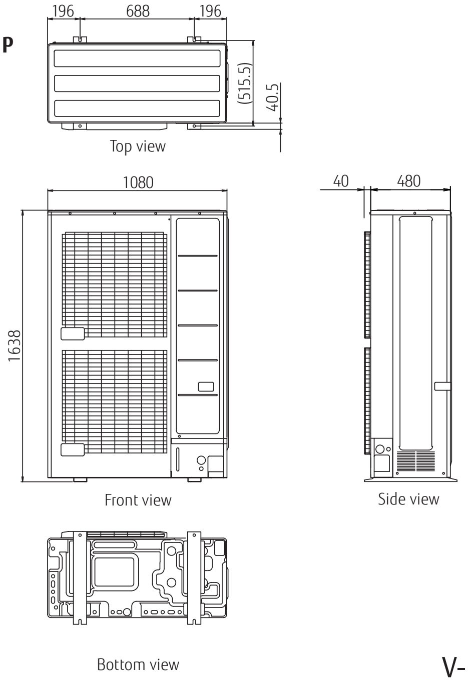
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP



NEW

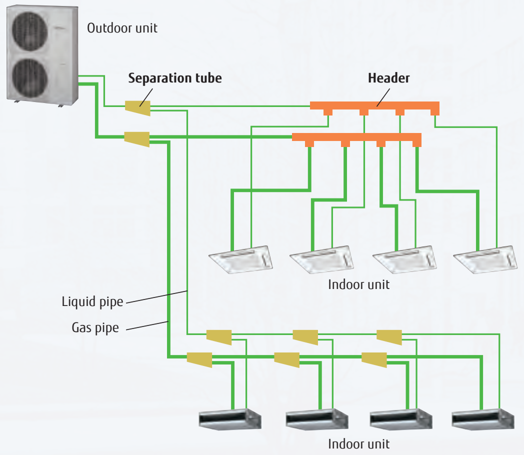
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IV

System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



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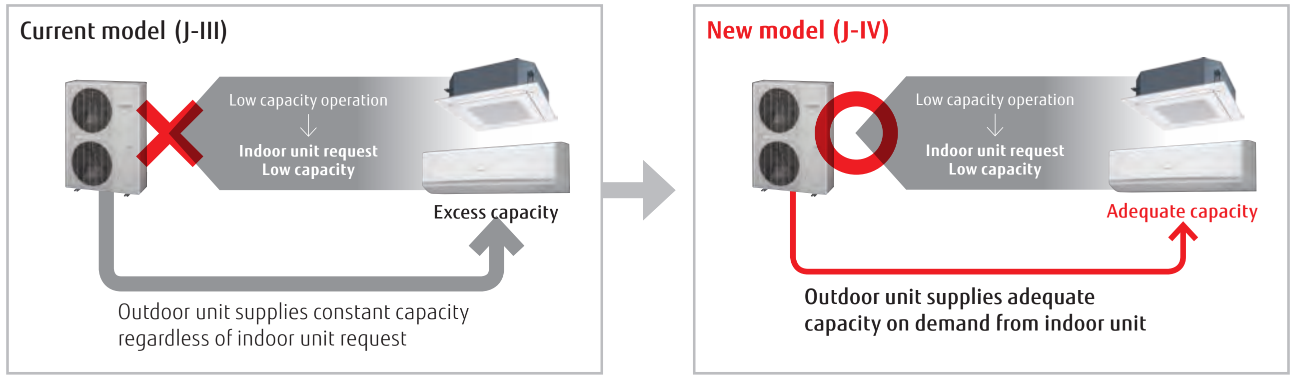
Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



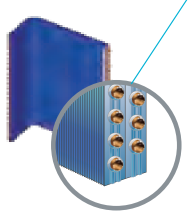
High Static Pressure

External static pressure is available up to 30Pa for 4/5/6HP.

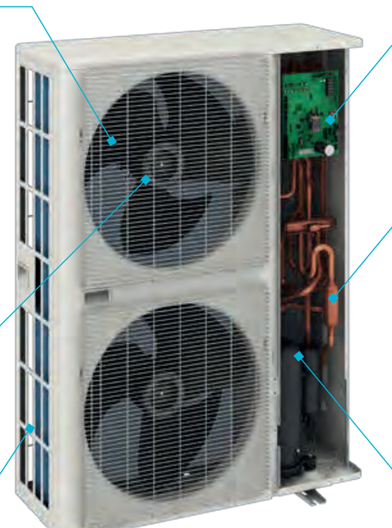
Advanced high efficiency technology

Large propeller fan
High performance and low noise realized by large propeller and optimization of angle.

DC fan motor
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

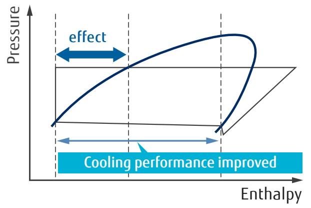


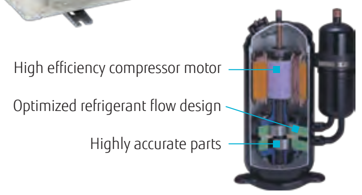
Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



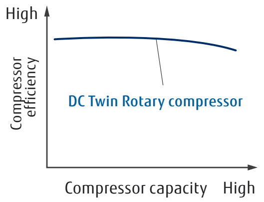
DC inverter control
Efficiency is improved by mounting of new active filter module.

Subcool heat exchanger
Cooling performance is improved by mounting of dual tube heat exchanger.





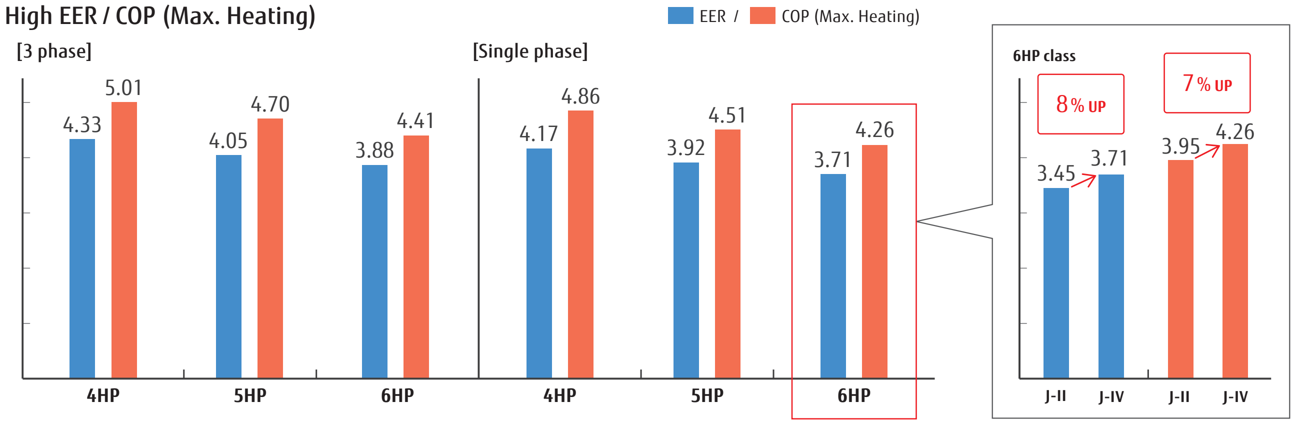
DC twin rotary compressor
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



Efficiency in actual operation

Top class high COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

High EER / COP (Max. Heating)

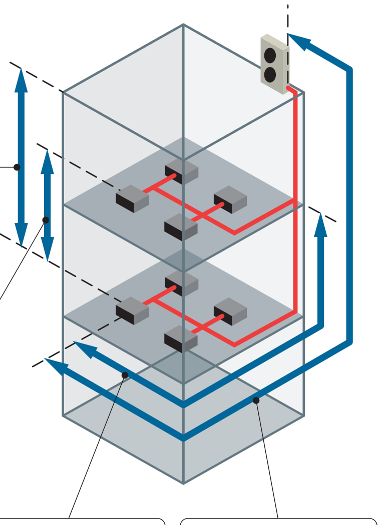


Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.

Total pipe length

Max. 180 m



Height difference between outdoor and indoor units

50 m max.

For the outdoor unit installed below the indoor units: 40 m max.

Height difference between indoor and indoor units

15 m max.

Piping length from first separation tube to the furthest indoor unit

40 m max.

Actual piping length

120 m max.

Up to 14 units* can be connected

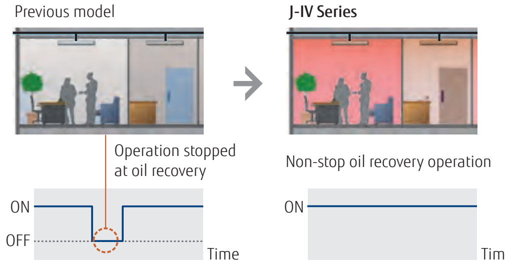
Up to 14 units* can be connected The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 14 units.

*: 6 HP model

Model	Current model (J-III)			New model (J-IV)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-9	1-10	1-13	1-11	1-12	1-14

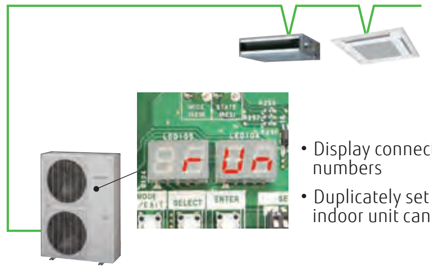
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

4,5,6HP : AJY040LBLBH / AJY045LBLBH / AJY054LBLBH
AJY040LELBH [3 phase] / AJY045LELBH [3 phase] / AJY054LELBH [3 phasee]

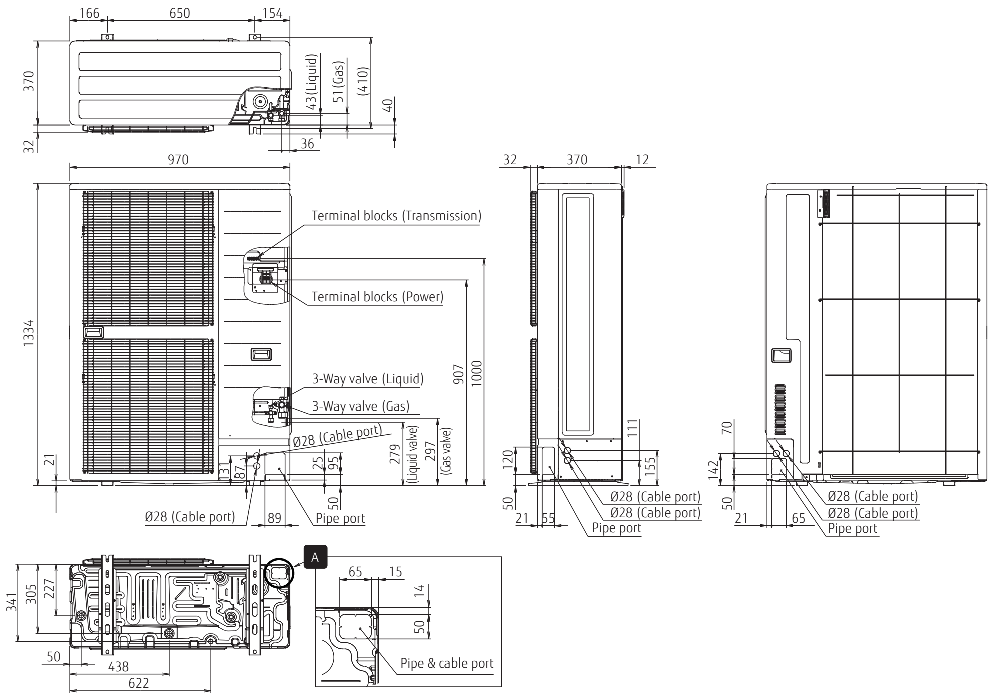
Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLBH	AJY045LBLBH	AJY054LBLBH	AJY040LELBH	AJY045LELBH	AJY054LELBH
Maximum Connectable Indoor Unit			1-11	1-12	1-14	1-11	1-12	1-14
Power source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Nominal Heating		12.1	14.0	15.5	12.1	14.0	15.5
	Max Heating		13.6	16.0	18.0	13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Nominal Heating		2.39	2.97	3.50	2.32	2.86	3.36
	Max Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	4.33	4.05	3.88
COP	Nominal Heating		5.06	4.71	4.43	5.21	4.90	4.61
	Max Heating		4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		m^3/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 65	51 / 65	53 / 66	50 / 65	51 / 65	53 / 66
	Heating		52 / 67	55 / 69	56 / 69	52 / 67	55 / 69	56 / 69
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Weight		kg	117	117	119	118	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180
Max. height difference			50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)



NEW

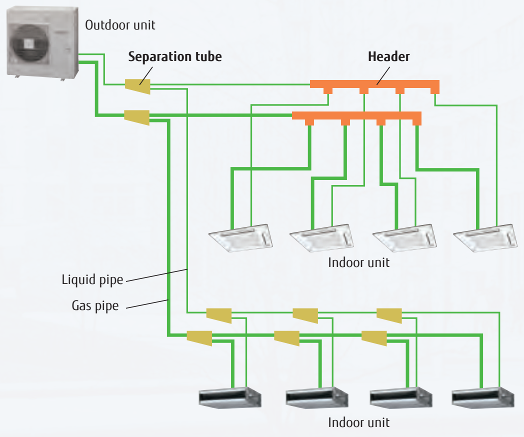
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVS

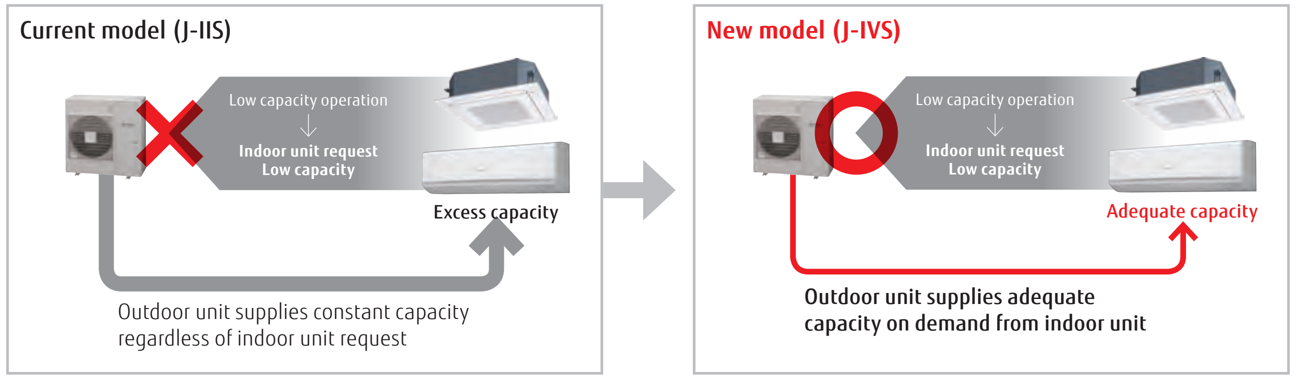
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



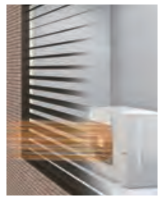
New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.

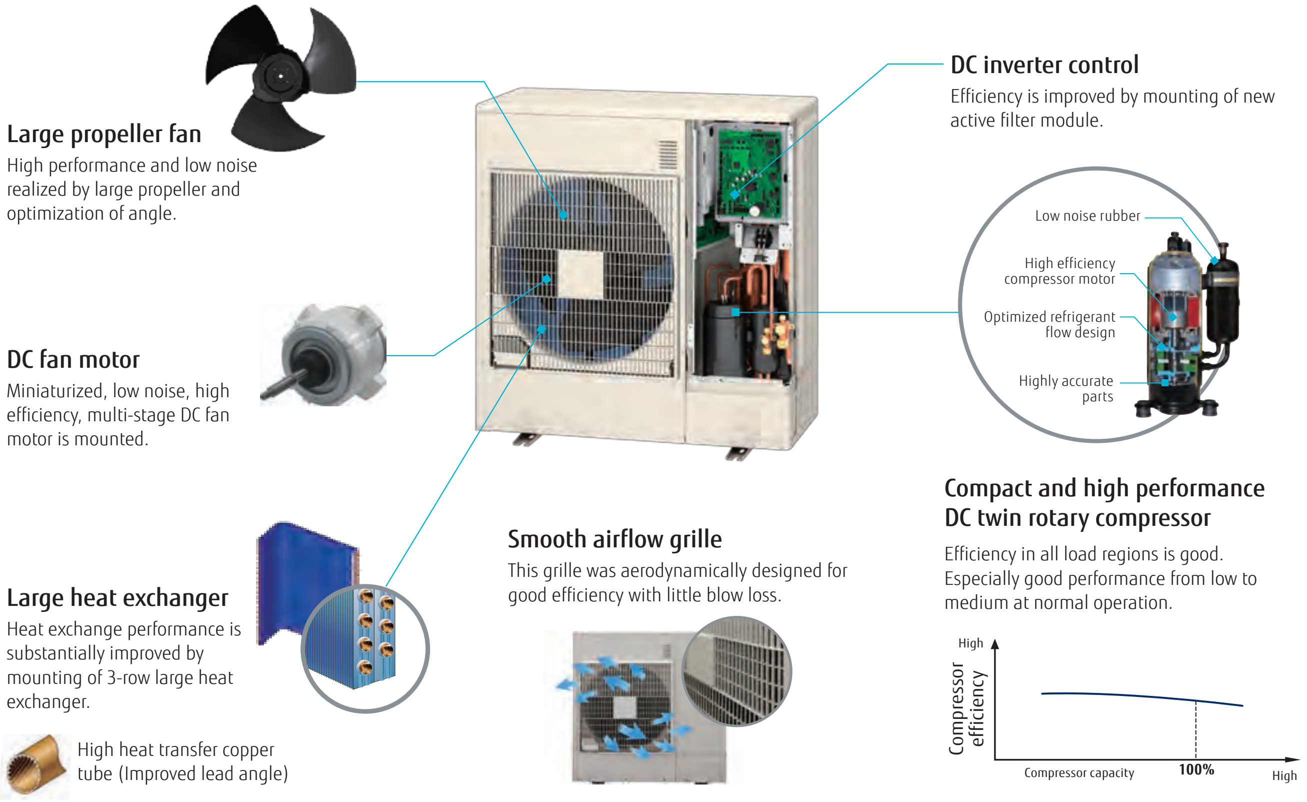


High Static Pressure

External static pressure is available up to 25Pa for 4/5/6HP.



Advanced high efficiency technology



Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.

DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

High heat transfer copper tube (Improved lead angle)

Smooth airflow grille

This grille was aerodynamically designed for good efficiency with little blow loss.

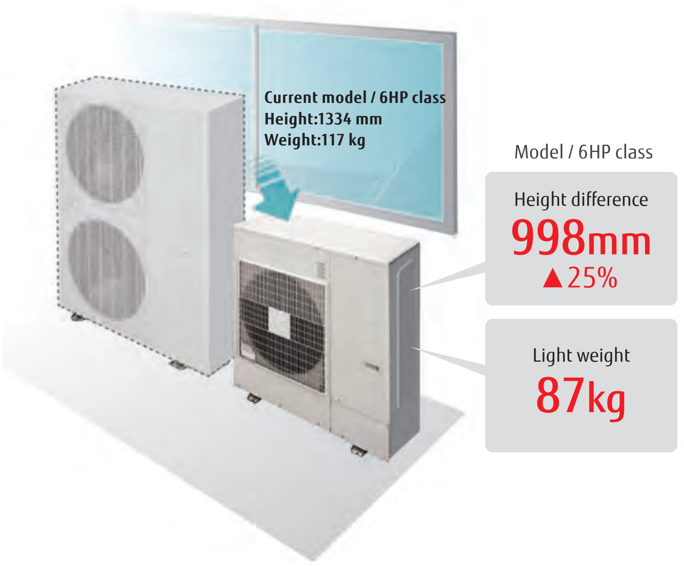
DC inverter control

Efficiency is improved by mounting of new active filter module.

Compact and high performance DC twin rotary compressor

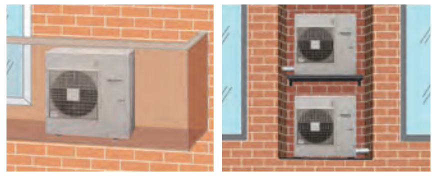
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

It Can be Easily Carried and Installed



Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces



Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.

Long piping length

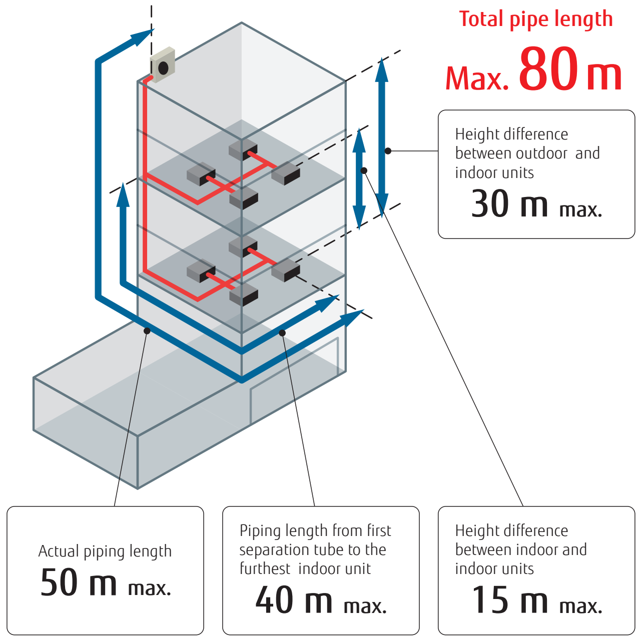
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up possibilities in system design.

Up to 13 units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

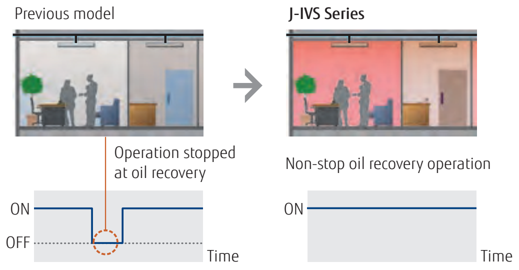
*: 6 HP model

Model	Current model (J-IIS)			New model (J-IVS)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-7	1-8	1-8	1-11	1-12	1-13



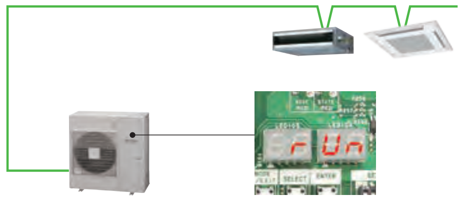
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

4,5,6HP : AJY040LCLBH / AJY045LCLBH / AJY054LCLBH

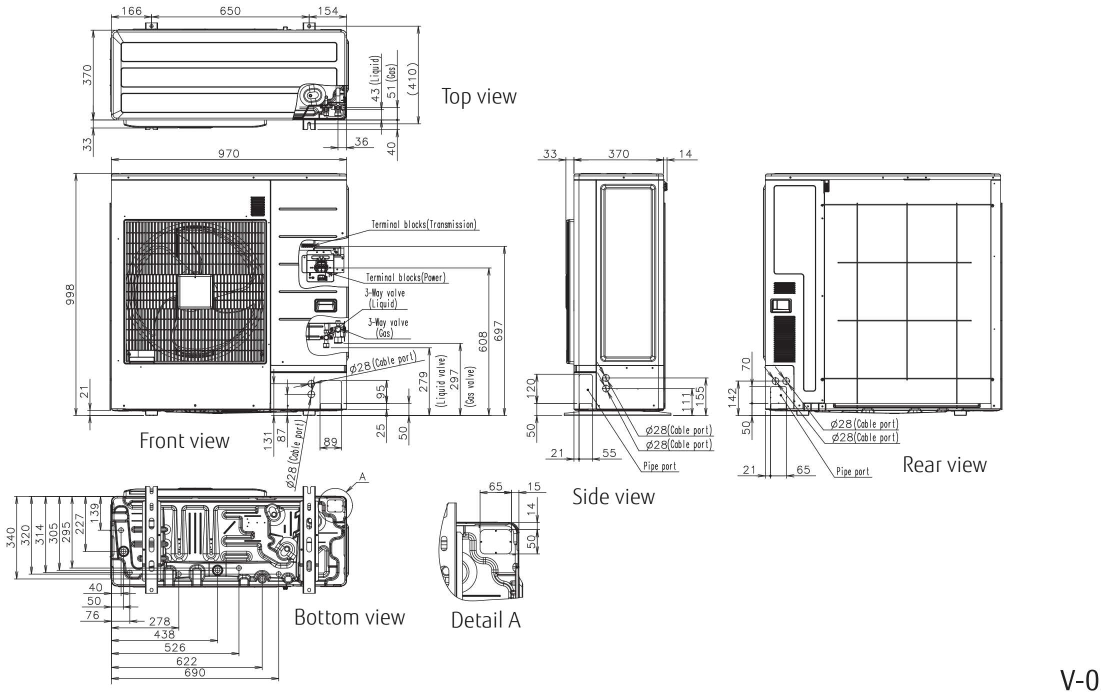
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLBH	AJY045LCLBH	AJY054LCLBH
Maximum Connectable Indoor Unit			1-11	1-12	1-13
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Nominal Heating		12.1	14.0	15.1
	Max Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.03
	Nominal Heating		2.55	3.11	3.52
	Max Heating		3.27	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Nominal Heating		4.74	4.51	4.30
	Max Heating		4.16	4.07	4.01
Airflow rate		m^3/h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	56 / 69	56 / 70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)



NEW

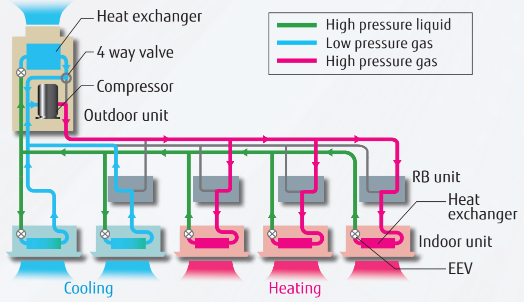
Heat Recovery

Modular Type

AIRSTAGE™ VR-IV

High Operating Energy Efficiency

Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



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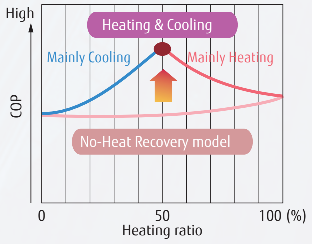
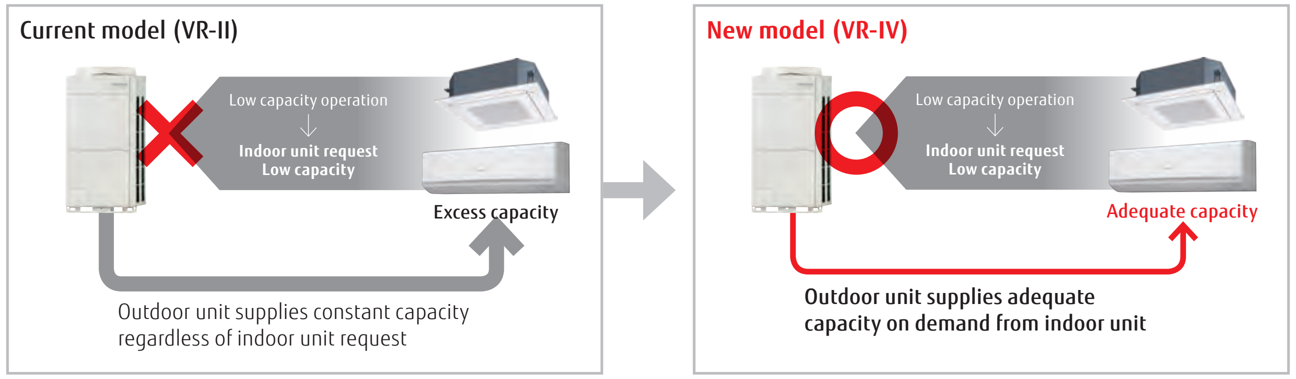


New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



Current model (VR-II)

Outdoor unit supplies constant capacity regardless of indoor unit request

New model (VR-IV)

Outdoor unit supplies adequate capacity on demand from indoor unit

High capacity connection

Connectable indoor unit capacity range

New model (VR-IV)	25%* to 150%
Current model (VR-II)	50% to 150%

*: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Connectable indoor unit number Space Saving Combination

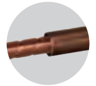
(Unit)

HP	8	10	12	14	16	•••	28	30	32	•••	48
New model (VR-IV)	17	21	26	30	34	•••	60	64	64	•••	64
Current model (VR-II)	15	16	17	21	24	•••	42	45	48	•••	64

Energy saving technology that boosted operation efficiency

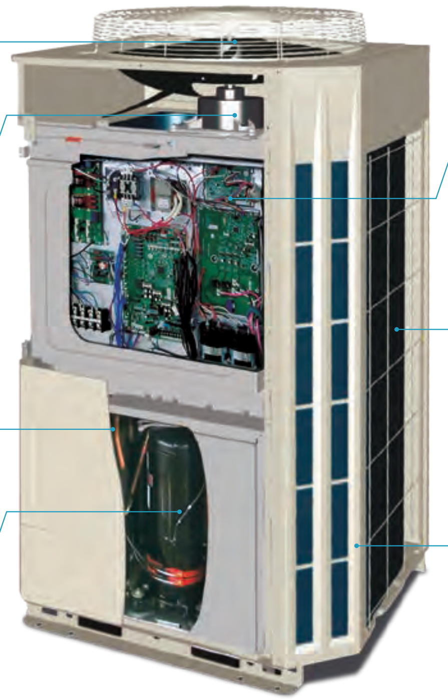
Powerful large propeller fan
By using CFD* technology, a newly designed fan achieves high performance and low noise operation.
*: CFD = Computational Fluid Dynamics

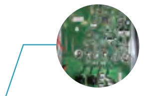
3 phase DC fan motor
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



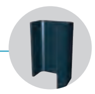
Subcool heat exchanger
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

High efficient and large capacity DC twin rotary compressor
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.





Sine-wave DC inverter control
High efficiency is realized by adoption of reduced switching loss IPM.



4-face heat exchanger
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

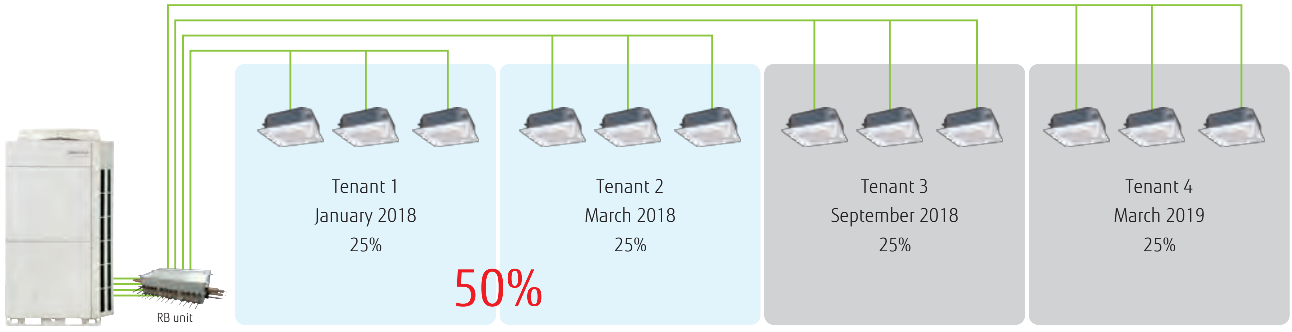
Front intake port (Corner cut air inlet structure)
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

Multi-tenant function

This function is especially effective when partial air-conditioning starts at the building under construction. Installation work can be added flexibly for each tenant.

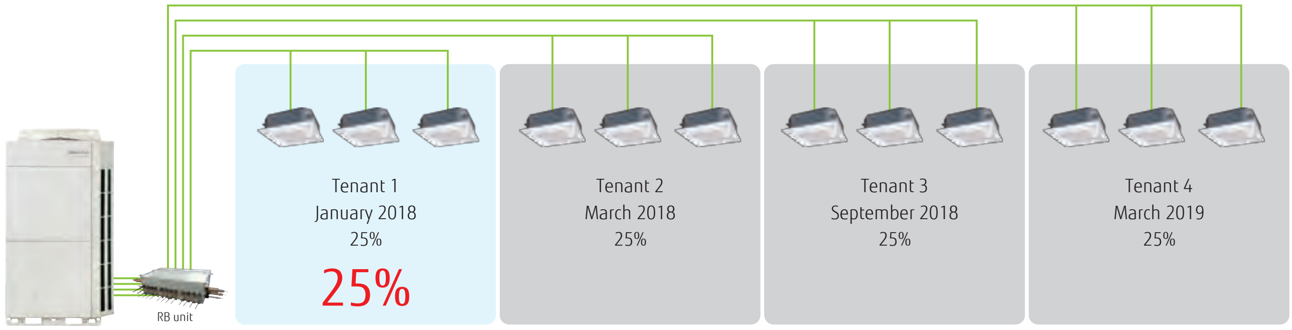
Stand alone

Current model (VR-II) **Example) for 12HP**: 6HP operations for 50% are required.



Construction work is required even at the tenant which is not yet open.

New model (VR-IV) **Example) for 12HP**: 3HP operations for 25% are enabled.



Installation and commissioning can be added flexibly according to the opening date of other tenants.

Modular type

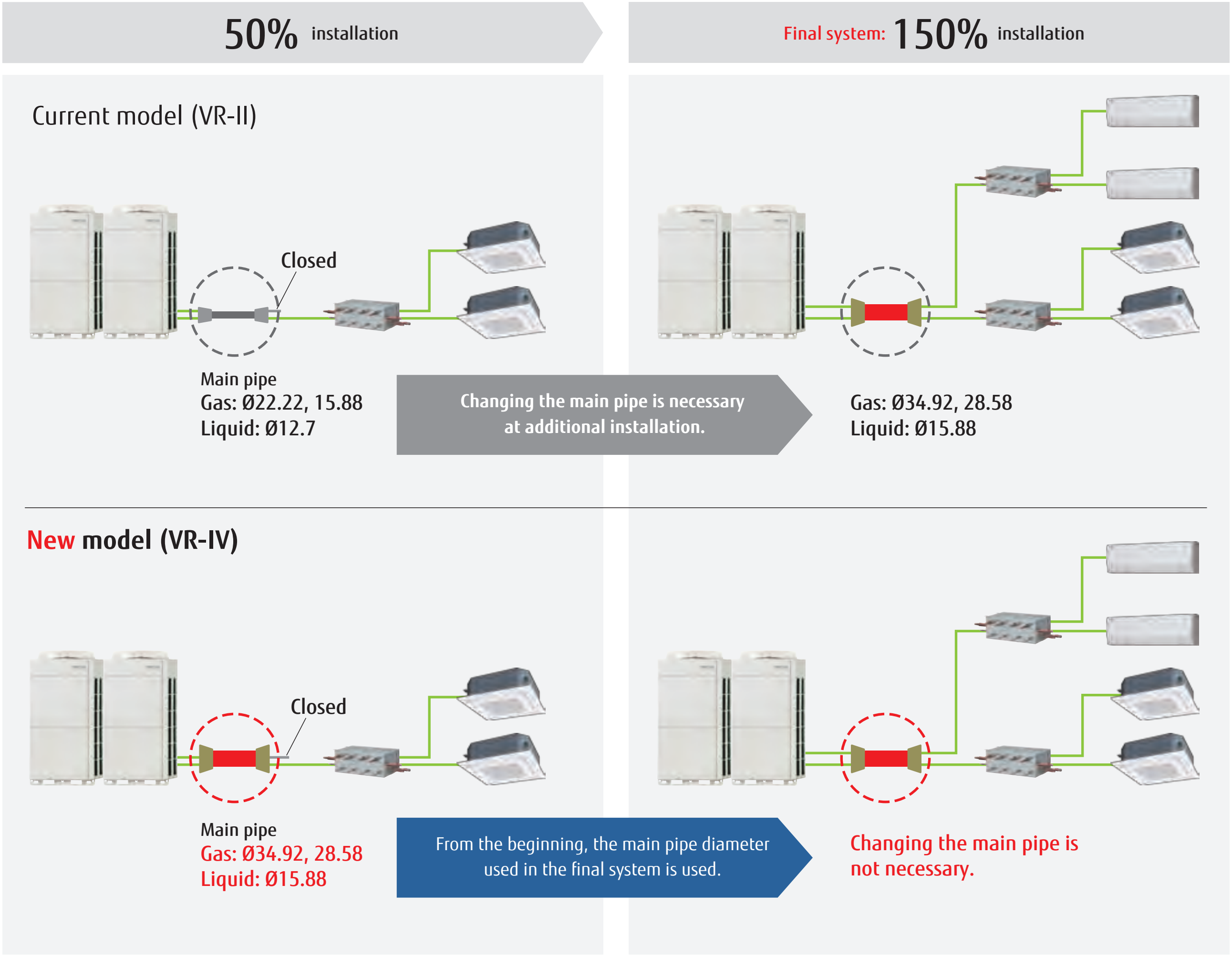
One outdoor unit operates effectively for the connectable indoor unit capacity in the entire system. (25% operation by multiple units is not available.)

Example) for 25% operation (5HP) of 20HP (10HP x 2 units)
5HP operation by 50% of one 10HP outdoor unit is performed.
→25% operation by 2 units is not performed.

50% operation is performed by one unit of outdoor unit, so 25% operation is performed in entire system.

Additional installation without changing the main pipe

Installation work can be performed from the beginning by the main pipe diameter used in the final system.
Unlike current model, changing the main pipe is not necessary, so duplication of work is resolved.



50% installation

Final system: 150% installation

Current model (VR-II)

Closed

Main pipe
Gas: Ø22.22, 15.88
Liquid: Ø12.7

Changing the main pipe is necessary at additional installation.

Gas: Ø34.92, 28.58
Liquid: Ø15.88

New model (VR-IV)

Closed

Main pipe
Gas: Ø34.92, 28.58
Liquid: Ø15.88

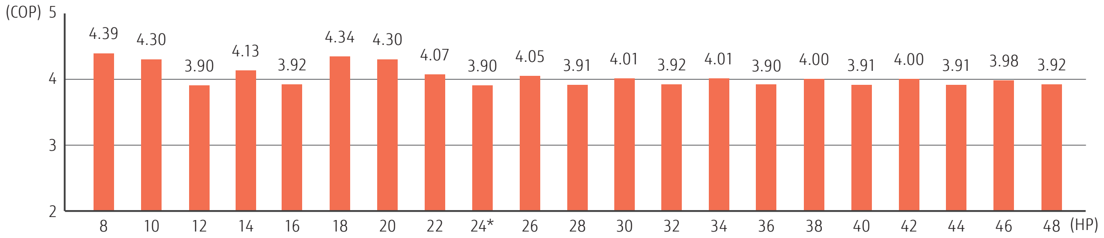
From the beginning, the main pipe diameter used in the final system is used.

Changing the main pipe is not necessary.

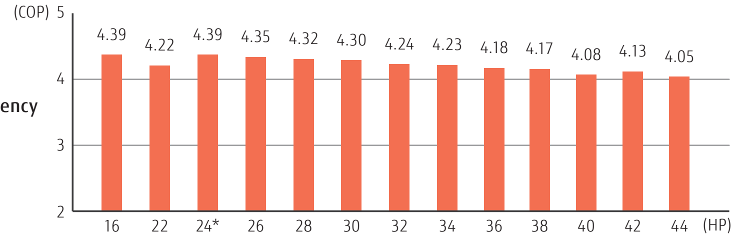
Efficiency in actual operation

Top class high COP(Max. Heating) is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.

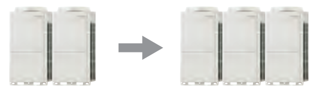
Space saving combination



Energy efficiency combination



For 24HP Combination



COP 12.6% UP

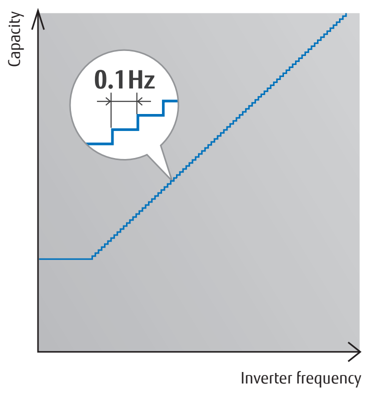
All inverter compressor

Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

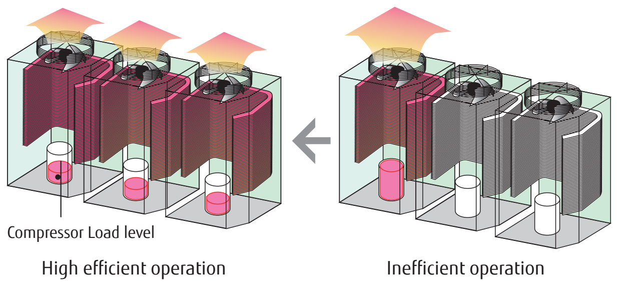
High efficient compressor speed control

Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



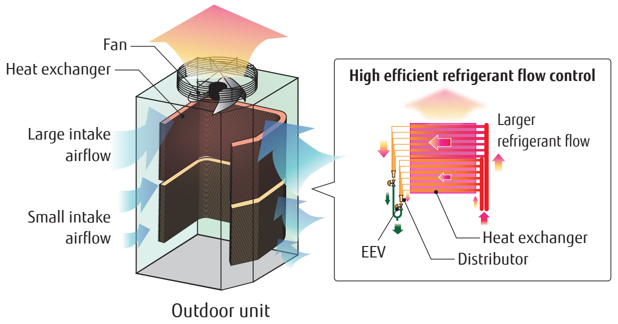
Multiple outdoor operation control

When multiple outdoor units are connected a sophisticated operation is performed by each compressor. Rather than running one compressor at full load and distributing refrigerant to one heat exchanger, this control method operates all compressors at part load and distributes refrigerant to all of the heat exchangers which allows for the overall system efficiency to be improved.



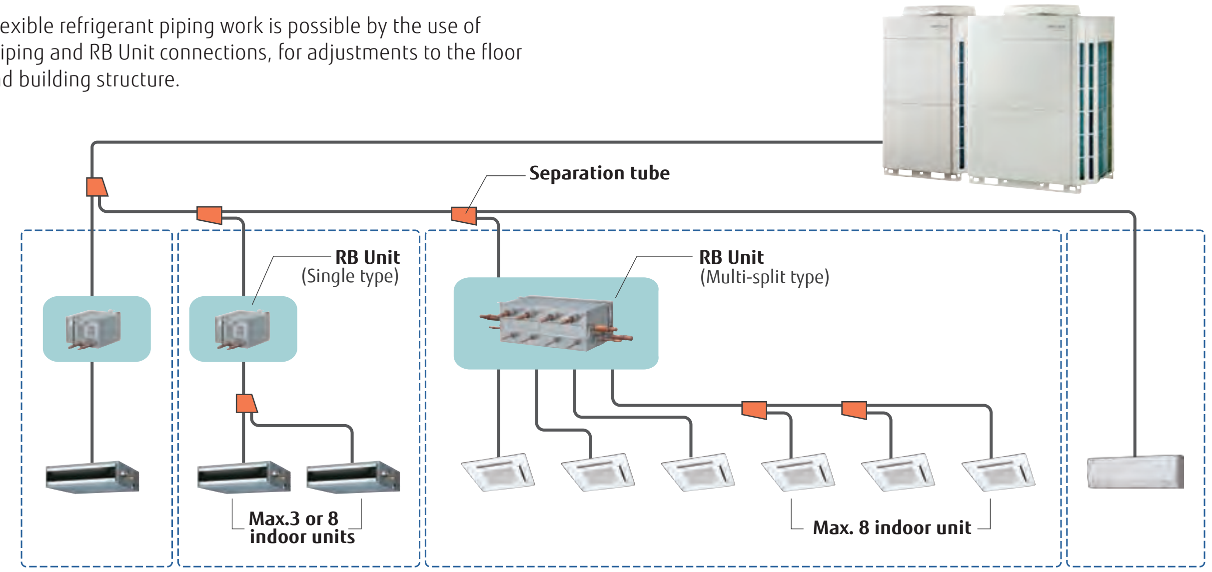
Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.



Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.



	Single connection	Group connection	Single connection	& Group connection	RB Unit less connection*2
Application	Individual cooling and heating	Simultaneous cooling and heating	Individual cooling and heating	Simultaneous cooling and heating	Cooling only

- The RB unit can be freely positioned between the first branch and the indoor unit.
- The maximum height difference between RB units is 15 m.

*2. RB Unit is not necessary for cooling only use.

Flexible installation of RB unit

NEW

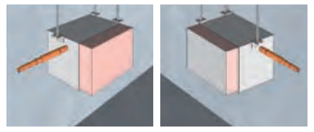
RB unit
(Multi-split type/8-branch)

NEW

RB unit
(Multi-split type/12-branch)

Small & slim design saves space. Height 198 mm!

- A drain pipe is not required
- The control box position can be changed to meet the installation conditions
- Simple installation series connection design

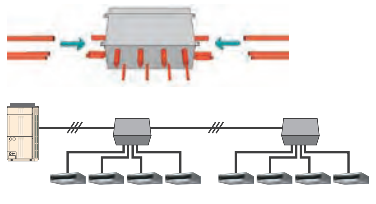


Installation possible from either side for freedom of the control box

Installation possible on the upper-side for use in narrow space

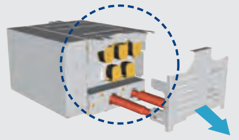
•2-way connection

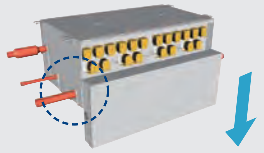
•Up to 2 units can be connected in series.



Easy to maintenance in a narrow space

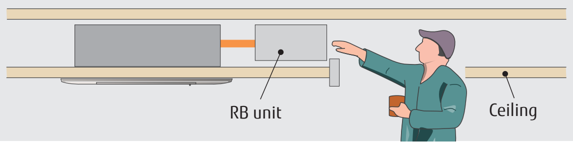
Maintenance can be performed from the side.





Electrics box can be temporarily fixed by sliding down.

Parts can be replaced easily even at narrow space in the ceiling.



Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072GALBH UNIT : AJY072GALBH	28.0kW (10HP)  AJY090GALBH UNIT : AJY090GALBH	33.5kW (12HP)  AJY108GALBH UNIT : AJY108GALBH	40.0kW (14HP)  AJY126GALBH UNIT : AJY126GALBH	45.0kW (16HP)  AJY144GALBH UNIT : AJY144GALBH
50.4kW (18HP)  AJY162GALBH UNIT : AJY090/072GALBH	56.0kW (20HP)  AJY180GALBH UNIT : AJY090/090GALBH	61.5kW (22HP)  AJY198GALBH UNIT : AJY108/090GALBH	67.0kW (24HP)  AJY216GALBH UNIT : AJY108/108GALBH	73.0kW (26HP)  AJY234GALBH UNIT : AJY144/090GALBH
78.5kW (28HP)  AJY252GALBH UNIT : AJY144/108GALBH	85.0kW (30HP)  AJY270GALBH UNIT : AJY144/126GALBH	90.0kW (32HP)  AJY288GALBH UNIT :AJY144/144GALBH	95.0kW (34HP)  AJY306GALBH UNIT : AJY108/108/090GALBH	100.5kW (36HP)  AJY324GALBH UNIT : AJY108/108/108GALBH
106.5kW (38HP)  AJY342GALBH UNIT : AJY144/108/090GALBH	112.0kW (40HP)  AJY360GALBH UNIT : AJY144/108/108GALBH	118.0kW (42HP)  AJY378GALBH UNIT : AJY144/144/090GALBH	123.5kW (44HP)  AJY396GALBH UNIT : AJY144/144/108GALBH	130.0kW (46HP)  AJY414GALBH UNIT : AJY144/144/126GALBH
135.0kW (48HP)  AJY432GALBH UNIT : AJY144/144/144GALBH				

Energy efficiency Combinations

44.8kW (16HP)  AJY144GALBHH UNIT : AJY072/072GALBH	62.4kW (22HP)  AJY198GALBHH UNIT : AJY126/072GALBH	67.2kW (24HP)  AJY216GALBHH UNIT : AJY072/072/072GALBH	72.8kW (26HP)  AJY234GALBHH UNIT : AJY090/072/072GALBH	78.4kW (28HP)  AJY252GALBHH UNIT : AJY090/090/072GALBH
84.0kW (30HP)  AJY270GALBHH UNIT : AJY090/090/090GALBH	90.4kW (32HP)  AJY288GALBHH UNIT : AJY126/090/072GALBH	96.0kW (34HP)  AJY306GALBHH UNIT : AJY126/090/090GALBH	102.4kW (36HP)  AJY324GALBHH UNIT : AJY126/126/072GALBH	108.0kW (38HP)  AJY342GALBHH UNIT : AJY126/126/090GALBH
113.0kW (40HP)  AJY360GALBHH UNIT : AJY144/126/090GALBH	120.0kW (42HP)  AJY378GALBHH UNIT : AJY126/126/126GALBH	125.0kW (44HP)  AJY396GALBHH UNIT : AJY144/126/126GALBH		

8,10,12HP : AJY072GALBH / AJY090GALBH / AJY108GALBH
14,16HP : AJY126GALBH / AJY144GALBH

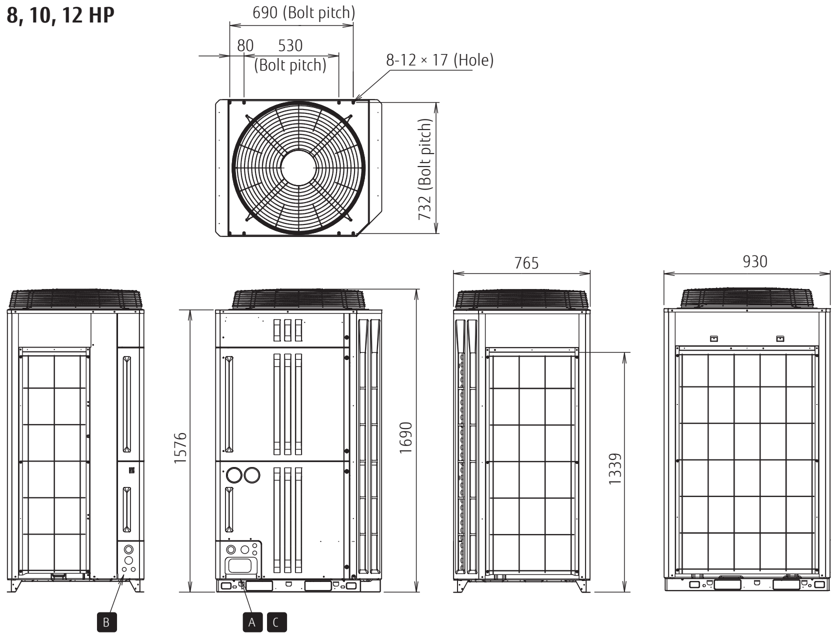
8, 10, 12 HP

14, 16 HP

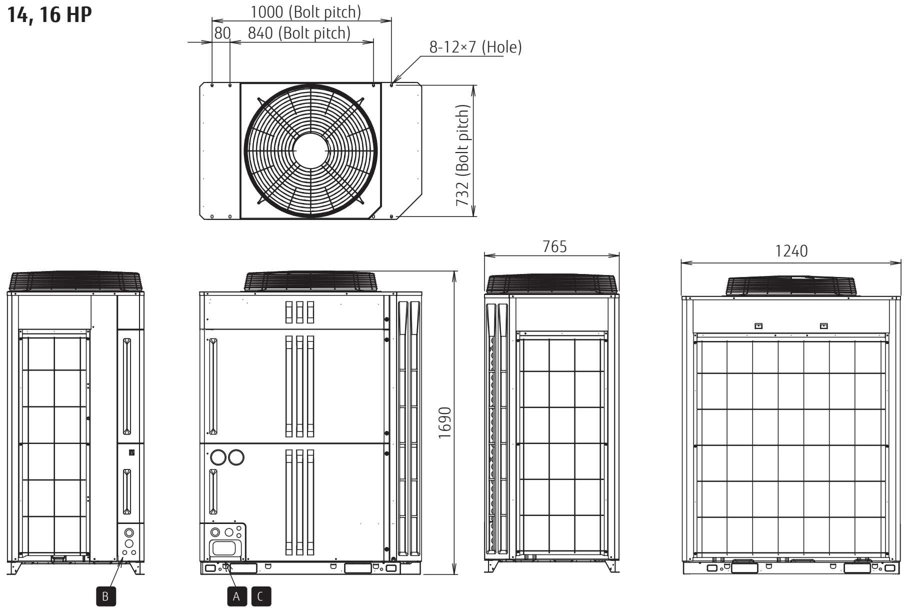
Dimensions

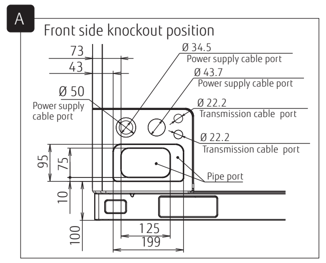
(Unit : mm)

8, 10, 12 HP

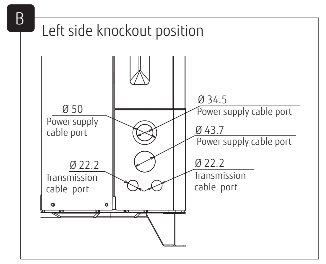


14, 16 HP

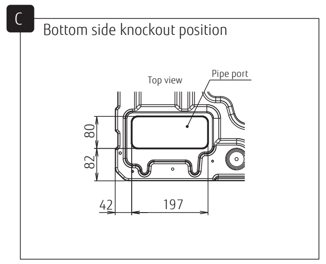




A Front side knockout position



B Left side knockout position



C Bottom side knockout position

Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Set Model name			AJY072GALBH	AJY090GALBH	AJY108GALBH	AJY126GALBH	AJY144GALBH	AJY162GALBH	AJY180GALBH	AJY198GALBH	AJY216GALBH
Unit 1 Unit 2 Unit 3			AJY072GALBH	AJY090GALBH	AJY108GALBH	AJY126GALBH	AJY144GALBH	AJY090GALBH AJY072GALBH	AJY090GALBH AJY090GALBH	AJY108GALBH AJY090GALBH	AJY108GALBH AJY108GALBH
Maximum Connectable Indoor Unit*1			17	21	26	30	34	39	43	47	52
Indoor unit connectable capacity		kW	5.6-33.6	7.0-42.0	8.4-50.2	10.0-60.0	11.3-67.5	12.6-75.6*3	14.0-84.0*3	15.4-92.2*3	16.8-100.5*3
Power source			3 phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	-	-	-	-
	Max Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	14.42	12.56	14.22	16.86	19.50
	Nominal Heating		4.73	6.00	7.89	8.85	10.54	-	-	-	-
	Max Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.12	4.01	3.94	3.65	3.44
COP	Nominal Heating		4.74	4.67	4.25	4.52	4.27	-	-	-	-
	Max Heating		4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90
Airflow rate		m^3/h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2
Sound pressure level*2/ Power level	Cooling	dB(A)	56 / 75	58 / 76	59 / 79	60 / 81	61 / 81	60 / 79	61 / 79	62 / 81	62 / 82
	Heating		58 / 76	59 / 77	62 / 82	62 / 82	62 / 82	62 / 80	62 / 80	63 / 83	64 / 85
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5×2	7.5×2	7.5×2	7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930×2	930×2	930×2	930×2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Rating Capacity range		HP	26	28	30	32	34	36	38	40	42	44	46	48
														
Set Model name			AJY234GALBH	AJY252GALBH	AJY270GALBH	AJY288GALBH	AJY306GALBH	AJY324GALBH	AJY342GALBH	AJY360GALBH	AJY378GALBH	AJY396GALBH	AJY414GALBH	AJY432GALBH
Unit 1 Unit 2 Unit 3			AJY144GALBH AJY090GALBH	AJY144GALBH AJY108GALBH	AJY144GALBH AJY126GALBH	AJY144GALBH AJY144GALBH	AJY108GALBH AJY108GALBH AJY090GALBH	AJY108GALBH AJY108GALBH AJY108GALBH	AJY144GALBH AJY108GALBH AJY090GALBH	AJY144GALBH AJY108GALBH AJY108GALBH	AJY144GALBH AJY144GALBH AJY090GALBH	AJY144GALBH AJY144GALBH AJY108GALBH	AJY144GALBH AJY144GALBH AJY126GALBH	AJY144GALBH AJY144GALBH AJY144GALBH
Maximum Connectable Indoor Unit*1			56	60	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity		kW	18.3-109.5*3	19.7-117.7*3	21.3-127.5*3	22.5-135.0*3	23.8-142.5*3	25.2-150.7*3	26.7-159.7*3	28.0-168.0*3	29.5-177.0*3	30.9-185.2*3	32.5-195.0*3	33.8-202.5*3
Power source			3 phase 4 wire , 400 V, 50Hz											
Capacity	Cooling	kW	73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
Input power	Cooling	kW	21.53	24.17	25.76	28.84	26.61	29.25	31.28	33.92	35.95	38.59	40.18	43.26
	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
EER	Cooling	W/W	3.39	3.25	3.30	3.12	3.57	3.44	3.40	3.30	3.28	3.20	3.24	3.12
COP	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92
Airflow rate		m^3/h	13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
Sound pressure level*2/ Power level	Cooling	dB(A)	63 / 82	63 / 83	64 / 84	64 / 84	63 / 83	64 / 84	64 / 84	65 / 85	65 / 85	65 / 85	65 / 86	66 / 86
	Heating		63 / 83	64 / 85	64 / 85	64 / 85	65 / 86	67 / 87	65 / 86	67 / 87	66 / 86	67 / 87	67 / 87	67 / 87
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	11.0+7.5	11.0+7.5	11.0×2	11.0×2	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	286+262	286+262	286×2	286×2	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas		28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
	Suction Gas		34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Set Model name			AJY144GALBHH	AJY198GALBHH	AJY216GALBHH	AJY234GALBHH	AJY252GALBHH	AJY270GALBHH
Unit 1 Unit 2 Unit 3			AJY072GALBH AJY072GALBH	AJY126GALBH AJY072GALBH	AJY072GALBH AJY072GALBH AJY072GALBH	AJY090GALBH AJY072GALBH AJY072GALBH	AJY090GALBH AJY090GALBH AJY072GALBH	AJY090GALBH AJY090GALBH AJY090GALBH
Maximum Connectable Indoor Unit*1			34	47	52	56	60	64
Indoor unit connectable capacity		kW	11.2-67.2*3	15.6-93.6*3	16.8-100.8*3	18.2-109.2*3	19.6-117.6*3	21.0-126.0*3
Power source			3 phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Nominal Heating		-	-	-	-	-	-
	Max Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Nominal Heating		-	-	-	-	-	-
	Max Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Nominal Heating		-	-	-	-	-	-
	Max Heating		4.39	4.22	4.39	4.35	4.32	4.30
Airflow rate		m^3/h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2/ Power level	Cooling	dB(A)	59 / 78	61 / 82	61 / 80	62 / 80	62 / 80	63 / 81
	Heating		61 / 79	63 / 83	63 / 81	63 / 81	63 / 81	64 / 82
Maximum external static pressure		Pa	80	80	80	80	80	80
Compressor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	1,240+930	930×3	930×3	930×3	930×3
	Depth		765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Rating Capacity range		HP	32	34	36	38	40	42	44
									
Set Model name			AJY288GALBHH	AJY306GALBHH	AJY324GALBHH	AJY342GALBHH	AJY360GALBHH	AJY378GALBHH	AJY396GALBHH
Unit 1 Unit 2 Unit 3			AJY126GALBH AJY090GALBH AJY072GALBH	AJY126GALBH AJY090GALBH AJY090GALBH	AJY126GALBH AJY126GALBH AJY072GALBH	AJY126GALBH AJY126GALBH AJY090GALBH	AJY144GALBH AJY126GALBH AJY090GALBH	AJY126GALBH AJY126GALBH AJY126GALBH	AJY144GALBH AJY126GALBH AJY126GALBH
Maximum Connectable Indoor Unit*1			64	64	64	64	64	64	64
Indoor unit connectable capacity		kW	22.6-135.6*3	24.0-144.0*3	25.6-153.6*3	27.0-162.0*3	28.3-169.5*3	30.0-180.0*3	31.3-187.5*3
Power source			3 phase 4 wire , 400 V, 50Hz						
Capacity	Cooling	kW	90.4	96.0	102.4	108.0	113.0	120.0	125.0
	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		101.5	108.0	115.0	121.5	126.5	135.0	140.0
Input power	Cooling	kW	23.90	25.56	28.13	29.79	32.87	34.02	37.10
	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		23.93	25.56	27.50	29.13	31.00	32.70	34.57
EER	Cooling	W/W	3.78	3.76	3.64	3.63	3.44	3.53	3.37
COP	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		4.24	4.23	4.18	4.17	4.08	4.13	4.05
Airflow rate		m^3/h	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
Sound pressure level*2/ Power level	Cooling	dB(A)	63 / 83	64 / 83	64 / 85	64 / 85	65 / 85	65 / 86	65 / 86
	Heating		64 / 84	65 / 84	66 / 86	66 / 86	66 / 86	67 / 87	67 / 87
Maximum external static pressure		Pa	80	80	80	80	80	80	80
Compressor motor output		kW	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765
Weight		kg	286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92
	Suction Gas		34.92	34.92	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

*1: Minimum connectable indoor unit number is 2.

*2: The noise value is the value when measured in an anechoic room. When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

*3: When the connectable indoor unit capacity range is 25% to 49.9%, do not open the three-way valve except for the operating one unit. In addition, do not connect the power line.

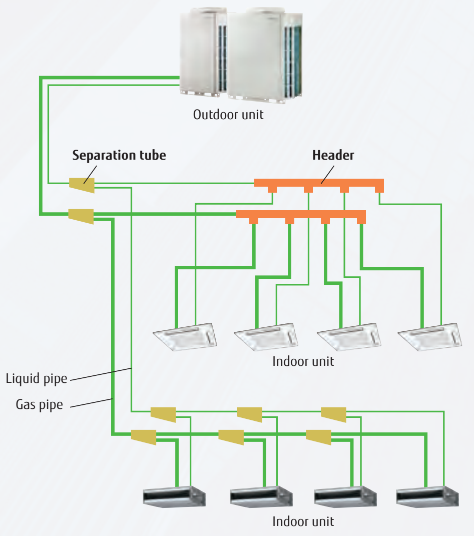
Heat Pump

Modular Type

AIRSTAGE™ V-III

System configuration example

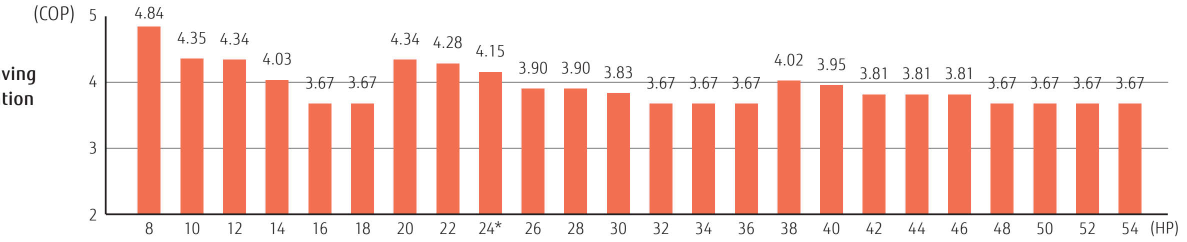
- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high capacity system.
- Connection of multiple indoor units using separation tubes and headers.



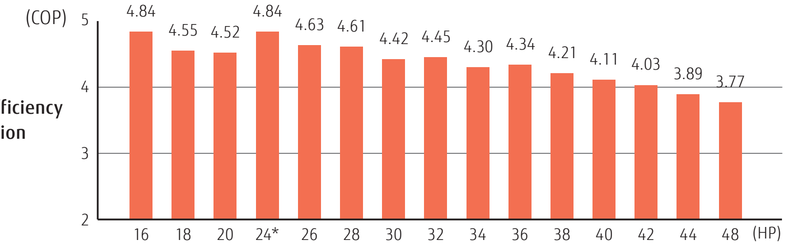
Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.

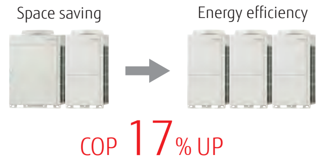
Space saving combination



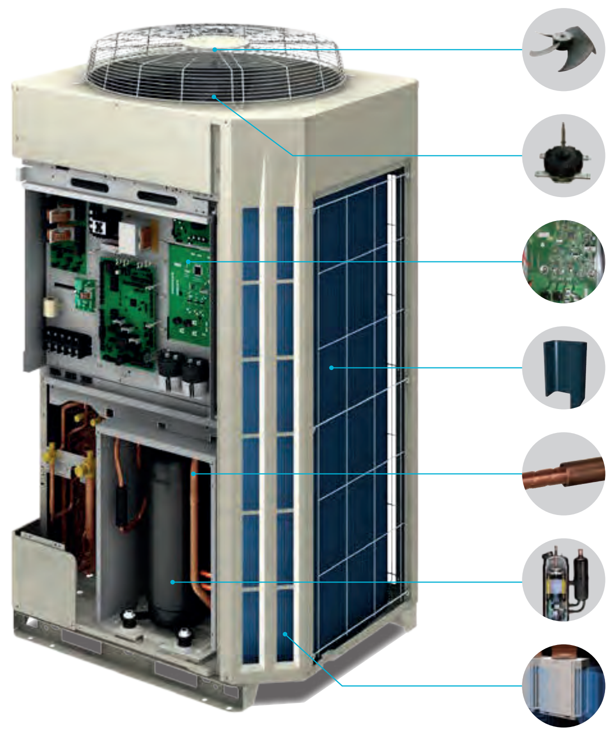
Energy efficiency combination



For 24 HP Combination



Energy saving technology that boosted operation efficiency



Powerful large propeller fan
By using CFD* technology, a newly designed fan achieves high performance and low noise operation. *: CFD = Computational Fluid Dynamics

3 phase DC fan motor
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.

Sine-wave DC inverter control
High efficiency is realized by adoption of reduced switching loss IPM.

4-face heat exchanger
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

Subcool heat exchanger
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

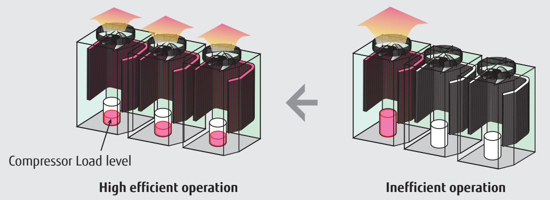
High efficient and large capacity DC twin rotary compressor
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

Front intake port (Corner cut air inlet structure)
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

Advanced energy saving control

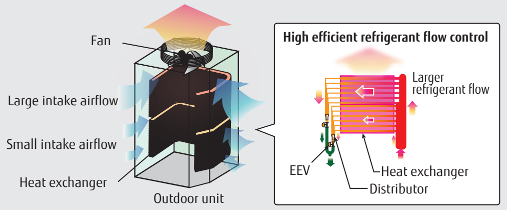
Multiple outdoor operation control

This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.



Heat exchanger refrigerant control

The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path control.



Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LALBH UNIT : AJY072LALBH	28.0kW (10HP)  AJY090LALBH UNIT : AJY090LALBH	33.5kW (12HP)  AJY108LALBH UNIT : AJY108LALBH	40.0kW (14HP)  AJY126LALBH UNIT : AJY126LALBH	45.0kW (16HP)  AJY144LALBH UNIT : AJY144LALBH
50.0 kW (18HP)  AJY162LALBH UNIT : AJY162LALBH	56.0kW (20HP)  AJY180LALBH UNIT : AJY090/090LALBH	62.4 kW (22HP)  AJY198LALBH UNIT : AJY126/072LALBH	68.0 kW (24HP)  AJY216LALBH UNIT : AJY126/090LALBH	73.0 kW (26HP)  AJY234LALBH UNIT : AJY144/090LALBH
78.0 kW (28HP)  AJY252LALBH UNIT : AJY162/090LALBH	85.0 kW (30HP)  AJY270LALBH UNIT : AJY144/126LALBH	90.0 kW (32HP)  AJY288LALBH UNIT : AJY144/144LALBH	95.0 kW (34HP)  AJY306LALBH UNIT : AJY162/144LALBH	100.0 kW (36HP)  AJY324LALBH UNIT : AJY162/162LALBH
106.0 kW (38HP)  AJY342LALBH UNIT : AJY162/090/090LALBH	113.0 kW (40HP)  AJY360LALBH UNIT : AJY144/126/090LALBH	118.0 kW (42HP)  AJY378LALBH UNIT : AJY144/144/090LALBH	123.0 kW (44HP)  AJY396LALBH UNIT : AJY162/144/090LALBH	128.0 kW (46HP)  AJY414LALBH UNIT : AJY162/162/090LALBH
135.0 kW (48HP)  AJY432LALBH UNIT : AJY144/144/144LALBH	140.0 kW (50HP)  AJY450LALBH UNIT : AJY162/144/144LALBH	145.0 kW (52HP)  AJY468LALBH UNIT : AJY162/162/144LALBH	150.0 kW (54HP)  AJY486LALBH UNIT : AJY162/162/162LALBH	

Energy efficiency Combinations

44.8 kW (16HP)  AJY144LALBHH UNIT : AJY072/072LALBH	50.4kW (18HP)  AJY162LALBHH UNIT : AJY090/072LALBH	55.9 kW (20HP)  AJY180LALBH UNIT : AJY108/072LALBH	67.2 kW (24HP)  AJY216LALBHH UNIT : AJY072/072/072LALBH	72.8 kW (26HP)  AJY234LALBHH UNIT : AJY090/072/072LALBH
78.3 kW (28HP)  AJY252LALBHH UNIT : AJY108/072/072LALBH	84.8 kW (30HP)  AJY270LALBHH UNIT : AJY126/072/072LALBH	89.4 kW (32HP)  AJY288LALBHH UNIT : AJY108/108/072LALBH	95.9 kW (34HP)  AJY306LALBHH UNIT : AJY126/108/072LALBH	100.5 kW (36HP)  AJY324LALBHH UNIT : AJY108/108/108LALBH
107.0 kW (38HP)  AJY342LALBHH UNIT : AJY126/108/108LALBH	113.5 kW (40HP)  AJY360LALBHH UNIT : AJY126/126/108LALBH	120.0 kW (42HP)  AJY378LALBHH UNIT : AJY126/126/126LALBH	125.0 kW (44HP)  AJY396LALBHH UNIT : AJY144/126/108LALBH	130.0 kW (46HP)  AJY414LALBHH UNIT : AJY144/144/126LALBH

8,10HP: AJY072LALBH / AJY090LALBH
12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH

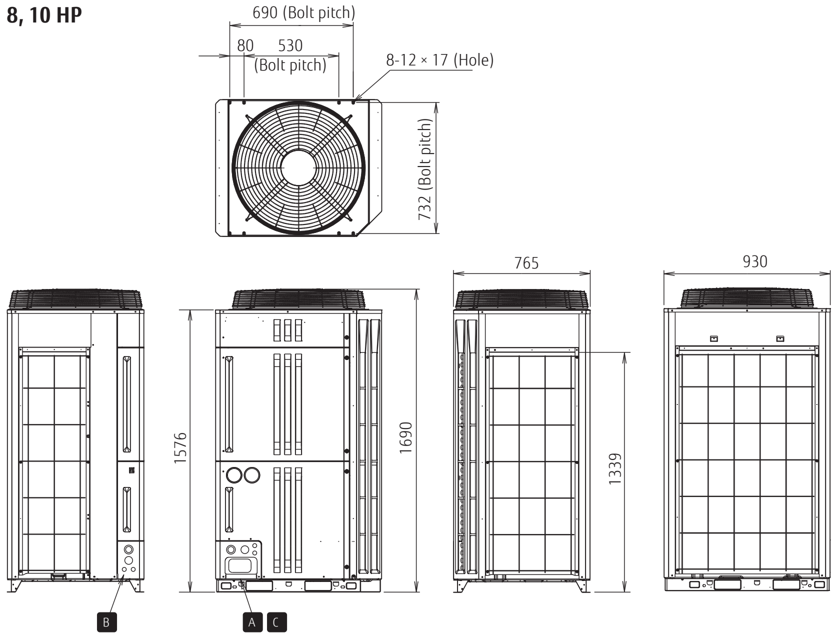
8, 10 HP

12, 14, 16, 18 HP

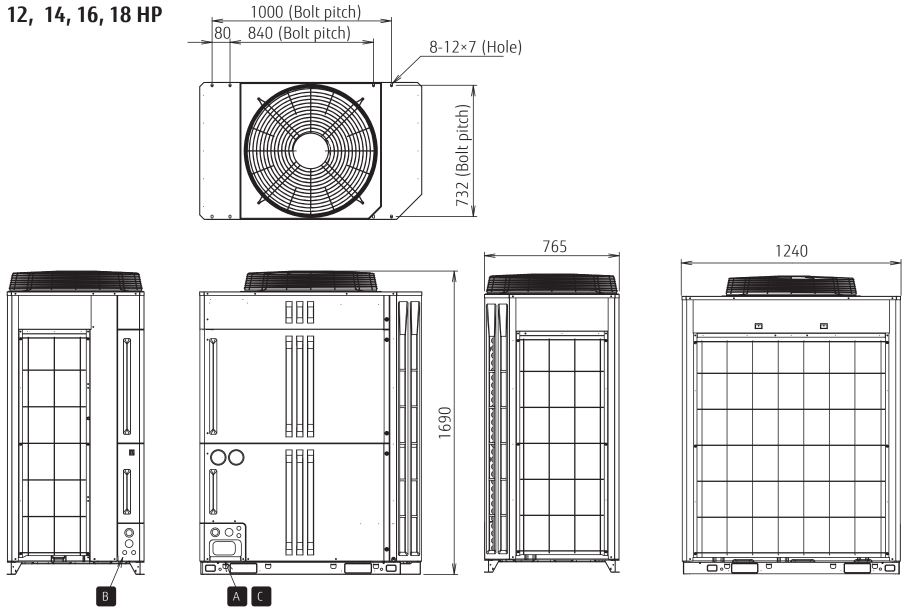
Dimensions

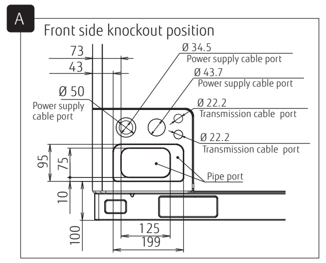
(Unit : mm)

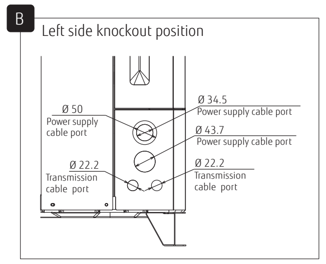
8, 10 HP

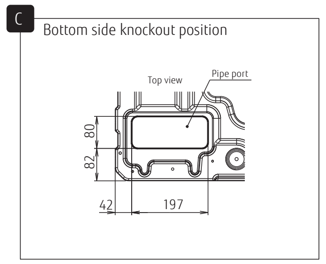


12, 14, 16, 18 HP




A Front side knockout position


B Left side knockout position


C Bottom side knockout position

Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
													
Set Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY162LALBH AJY090LALBH
Maximum Connectable Indoor Unit*1			17	21	26	30	34	39	43	47	52	56	60
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5
Power source			3 phase 4 wire, 400 V, 50Hz										
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.0	-	-	-	-	-
	Max Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Nominal Heating		4.31	5.98	7.10	8.97	11.09	13.63	-	-	-	-	-
	Max Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
COP	Nominal Heating		5.20	4.69	4.72	4.46	4.06	3.67	-	-	-	-	-
	Max Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
Airflow rate	High	m^3/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,700+11,100	13,700+11,100
Sound pressure level*2/ Power level	Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
	Heating		58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930
	Depth		765	765	765	765	765	765	765	765	765	765	765
Weight		kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Rating Capacity range		HP	30	32	34	36	38	40	42	44	46	48	50	52	54
															
Set Model name			AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
Unit 1 Unit 2 Unit 3			AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY090LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH
Maximum Connectable Indoor Unit*1			64	64	64	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity		kW	42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
Power source			3 phase 4 wire, 400 V, 50Hz												
Capacity	Cooling	kW	85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
Input power	Cooling	kW	23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
EER	Cooling	W/W	3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
COP	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-
	Max Heating		3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
Airflow rate	High	m^3/h	13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
Sound pressure level*2/ Power level	Cooling	dB(A)	64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
	Heating		66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		1,240×2	1,240×2	1,240×2	1,240×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas		34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	18	20	24	26	28	30
									
Set Model name			AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH
Unit 1 Unit 2 Unit 3			AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH	AJY108LALBH AJY072LALBH	AJY072LALBH AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH AJY072LALBH	AJY126LALBH AJY072LALBH AJY072LALBH
Maximum Connectable Indoor Unit*1			34	39	43	52	56	60	64
Indoor unit connectable capacity		kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3 phase 4 wire, 400 V, 50Hz						
Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
COP	Nominal Heating		-	-	-	-	-	-	-
	Max Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42
Airflow rate	High	m^3/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,000×3	13,000+11,100×2	13,000+11,100×2
Sound pressure level*2/ Power level	Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
	Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82
Compressor motor output		kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2
	Depth		765	765	765	765	765	765	765
Weight		kg	252×2	252×2	275+252	252×3	252×3	275+252×2	275+252×2
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

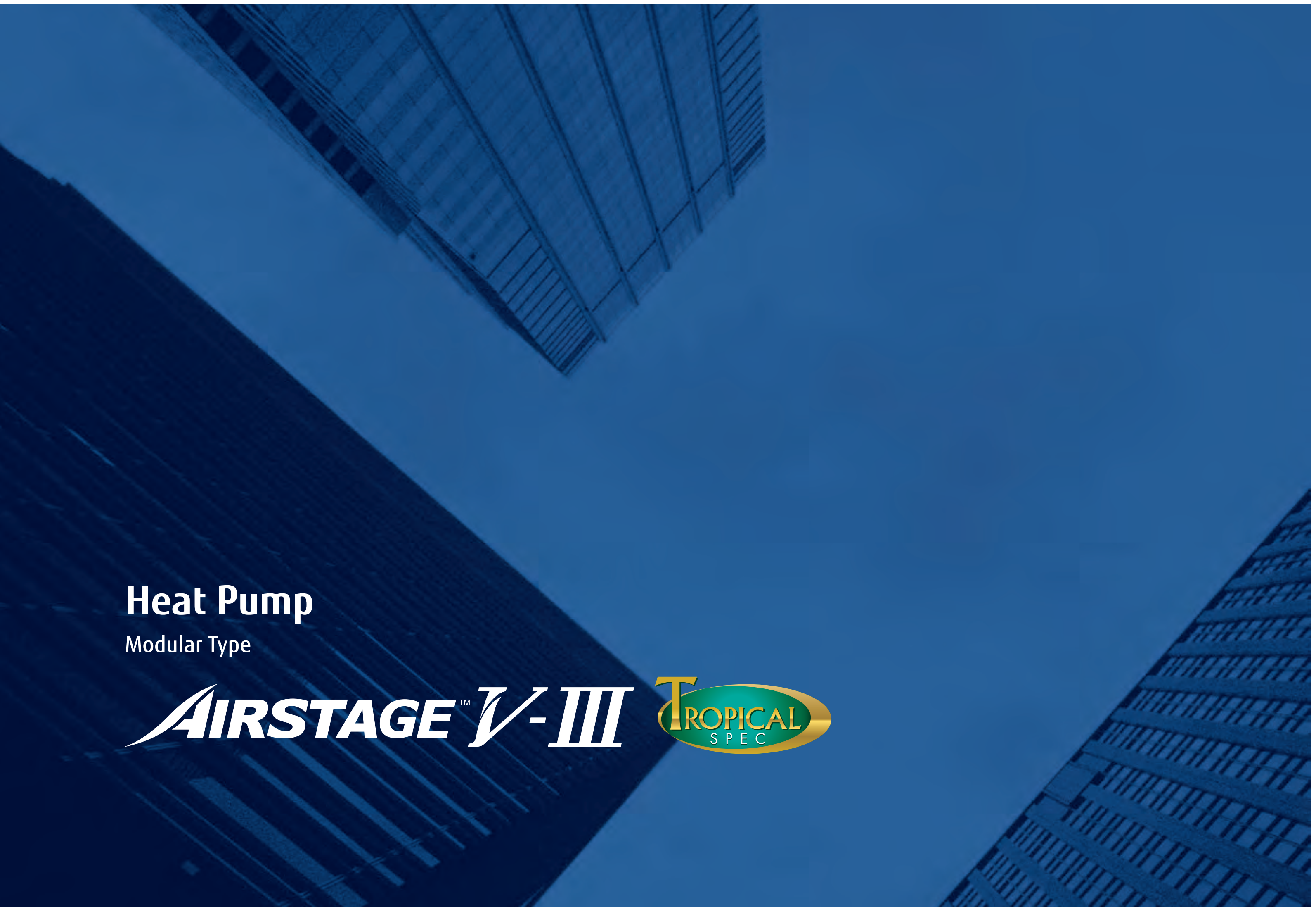
Rating Capacity range		HP	32	34	36	38	40	42	44	46
										
Set Model name			AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH
Unit 1 Unit 2 Unit 3			AJY108LALBH AJY108LALBH AJY072LALBH	AJY126LALBH AJY108LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY126LALBH
Maximum Connectable Indoor Unit*1			64	64			64	64	64	64
Indoor unit connectable capacity		kW	44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	65.0-195.0
Power source			3 phase 4 wire, 400 V, 50Hz							
Capacity	Cooling	kW	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
	Nominal Heating		-	-	-	-	-	-	-	-
	Max Heating		100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
Input power	Cooling	kW	23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
	Nominal Heating		-	-	-	-	-	-	-	-
	Max Heating		22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
EER	Cooling	W/W	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
COP	Nominal Heating		-	-	-	-	-	-	-	-
	Max Heating		4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
Airflow rate	High	m^3/h	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
Sound pressure level*2/ Power level	Cooling	dB(A)	61 / 82	63 / 84	63 / 83	64 / 84	64 / 85	65 / 88	66 / 87	66 / 87
	Heating		64 / 87	65 / 88	65 / 88	65 / 88	66 / 88	67 / 89	68 / 90	68 / 90
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82
Compressor motor output		kW	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765	765
Weight		kg	275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas		34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

*1 Minimum connectable indoor unit number is 2.
However ARXC72 and ARXC90 can be used signal connection.

*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.



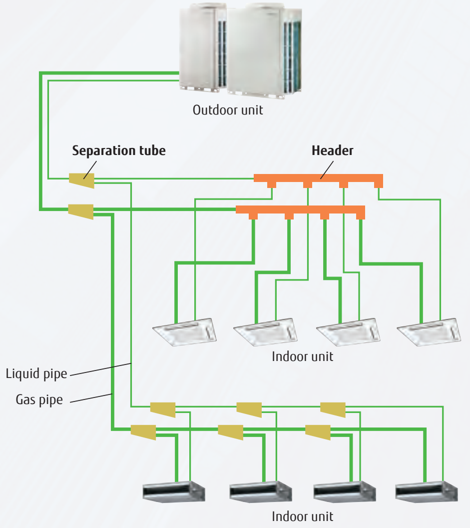
Heat Pump

Modular Type

AIRSTAGE V-III TROPICAL SPEC

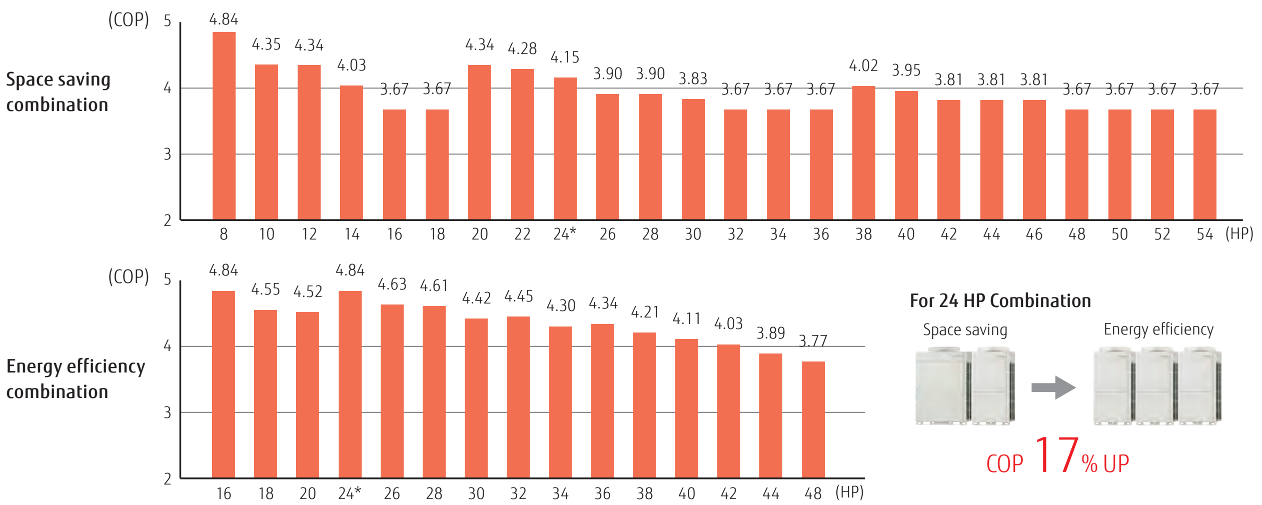
System configuration example

- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.



Efficiency in actual operation

Top class high COP(Max. Heating) is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.



Heavy anti-corrosion treatment design

Anti-corrosion coated casing parts

Satisfied the JRA* heavy anti-corrosion regulation(4002)

*JRA: Japan Refrigeration Association

PCB and Electronic components

High ambient temperature compatible electric components. Added silicon coating on all PCB circuits for anti-corrosion.

High ambient & corrosion compatible

PCB components
Refrigerant cycle component

Blue fin heat exchanger

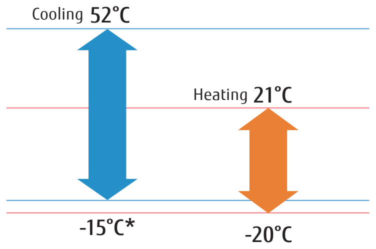
All screws and hinges

Added zinc chrome acid film treatment.

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation
up to 52°C
ambient



*: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LNLBH UNIT : AJY072LNLBH	28.0kW (10HP)  AJY090LNLBH UNIT : AJY090LNLBH	33.5kW (12HP)  AJY108LNLBH UNIT : AJY108LNLBH	40.0kW (14HP)  AJY126LNLBH UNIT : AJY126LNLBH	45.0kW (16HP)  AJY144LNLBH UNIT : AJY144LNLBH
50.0kW (18HP)  AJY162LNLBH UNIT : AJY162LNLBH	56.0kW (20HP)  AJY180LNLBH UNIT : AJY090/090LNLBH	62.4kW (22HP)  AJY198LNLBH UNIT : AJY126/072LNLBH	68.0kW (24HP)  AJY216LNLBH UNIT : AJY126/090LNLBH	73.0kW (26HP)  AJY234LNLBH UNIT : AJY144/090LNLBH
78.0kW (28HP)  AJY252LNLBH UNIT : AJY162/090LNLBH	85.0kW (30HP)  AJY270LNLBH UNIT : AJY144/126LNLBH	90.0kW (32HP)  AJY288LNLBH UNIT : AJY144/144LNLBH	95.0kW (34HP)  AJY306LNLBH UNIT : AJY162/144LNLBH	100.0kW (36HP)  AJY324LNLBH UNIT : AJY162/162LNLBH
106.0kW (38HP)  AJY342LNLBH UNIT : AJY162/090/090LNLBH	113.0kW (40HP)  AJY360LNLBH UNIT : AJY144/126/090LNLBH	118.0kW (42HP)  AJY378LNLBH UNIT : AJY144/144/090LNLBH	123.0kW (44HP)  AJY396LNLBH UNIT : AJY162/144/090LNLBH	128.0kW (46HP)  AJY414LNLBH UNIT : AJY162/162/090LNLBH
135.0kW (48HP)  AJY432LNLBH UNIT : AJY144/144/144LNLBH	140.0kW (50HP)  AJY450LNLBH UNIT : AJY162/144/144LNLBH	145.0kW (52HP)  AJY468LNLBH UNIT : AJY162/162/144LNLBH	150.0kW (54HP)  AJY486LNLBH UNIT : AJY162/162/162LNLBH	

Energy efficiency Combinations

44.8kW (16HP)  AJY144LNLBHH UNIT : AJY072/072LNLBH	50.4kW (18HP)  AJY162LNLBHH UNIT : AJY090/072LNLBH	55.9kW (20HP)  AJY180LNLBHH UNIT : AJY108/072LNLBH	67.2kW (24HP)  AJY216LNLBHH UNIT : AJY072/072/072LNLBH	72.8kW (26HP)  AJY234LNLBHH UNIT : AJY090/072/072LNLBH
78.3kW (28HP)  AJY252LNLBHH UNIT : AJY108/072/072LNLBH	84.8kW (30HP)  AJY270LNLBHH UNIT : AJY126/072/072LNLBH	89.4kW (32HP)  AJY288LNLBHH UNIT : AJY108/108/072LNLBH	95.9kW (34HP)  AJY306LNLBHH UNIT : AJY126/108/072LNLBH	100.5kW (36HP)  AJY324LNLBHH UNIT : AJY108/108/108LNLBH
107.0kW (38HP)  AJY342LNLBHH UNIT : AJY126/108/108LNLBH	113.5kW (40HP)  AJY360LNLBHH UNIT : AJY126/126/108LNLBH	120.0kW (42HP)  AJY378LNLBHH UNIT : AJY126/126/126LNLBH	125.0kW (44HP)  AJY396LNLBHH UNIT : AJY144/126/126LNLBH	130.0kW (46HP)  AJY414LNLBHH UNIT : AJY144/144/126LNLBH

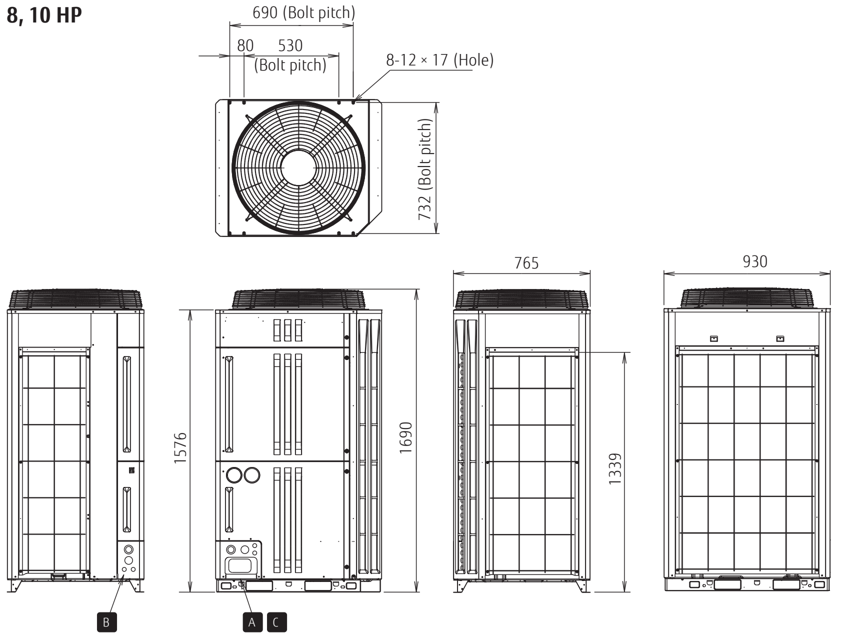
8,10HP : AJY072LNLBH / AJY090LNLBH
12,14,16,18HP : AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH

8, 10 HP   12, 14, 16, 18 HP

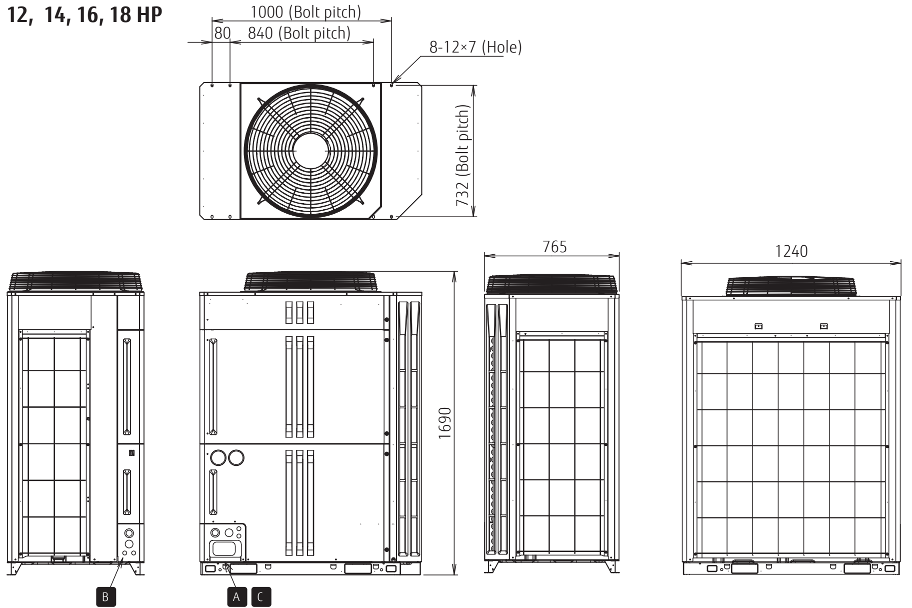
Dimensions

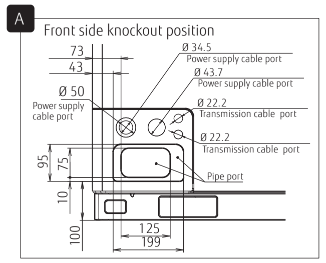
(Unit : mm)

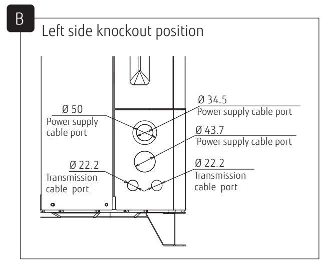
8, 10 HP

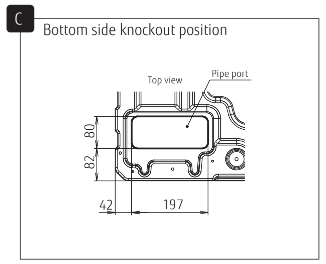


12, 14, 16, 18 HP









For more information, please contact Fujitsu General Limited. (www.fujitsu-general.com)

Outdoor units specifications

Space Saving Combination

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
																											
Set Model name				AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY180LNLBH	AJY198LNLBH	AJY216LNLBH	AJY234LNLBH	AJY252LNLBH	AJY270LNLBH	AJY288LNLBH	AJY306LNLBH	AJY324LNLBH	AJY342LNLBH	AJY360LNLBH	AJY378LNLBH	AJY396LNLBH	AJY414LNLBH	AJY432LNLBH	AJY450LNLBH	AJY468LNLBH	AJY486LNLBH
Unit 1 Unit 2 Unit 3				AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY090LNLBH AJY090LNLBH	AJY126LNLBH AJY072LNLBH	AJY126LNLBH AJY090LNLBH	AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY090LNLBH	AJY144LNLBH AJY126LNLBH	AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH	AJY162LNLBH AJY090LNLBH AJY090LNLBH	AJY144LNLBH AJY126LNLBH AJY090LNLBH	AJY144LNLBH AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY162LNLBH AJY090LNLBH	AJY144LNLBH AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH AJY162LNLBH
Maximum Connectable Indoor Unit				13	16	19	23	26	29	33	36	40	43	46	50	53	55	55	55	55	55	55	55	55	55	55	55
Indoor unit connectable capacity	Cooling		kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4	42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195
Power source				3 phase 4 wire, 400 V, 50Hz											3 phase 4 wire, 400 V, 50Hz												
T1 condition	Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
		Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
		Cooling	Btu/h	76400	95500	114300	136500	153500	170600	191000	212900	232000	249000	266100	290000	307000	324100	341200	361600	385500	402500	419600	436700	460500	477600	494700	511800
		Heating		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100	324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
	Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84	23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
		Nominal Heating		4.31	5.98	7.10	8.97	11.09	13.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88	24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
	Current	Cooling	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Heating		9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
	COP	Nominal Heating		5.20	4.69	4.72	4.46	4.06	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90	3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
	EER	Cooling	Btu/h/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2	12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
	COP	Heating		16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3	13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
T3 condition	Capacity	Cooling	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4	67.1	70.2	70.3	70.4	85.6	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
			Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100	229000	239600	239900	240200	292100	315000	325600	325900	326200	359400	359700	360000	360300
	Input power		kW	6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55	22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
	Current		A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80	2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
			Btu/h/W	10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56	10.17	10.14	9.93	9.72	9.50	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
Power factor			%	90	92	92	92	92	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Airflow rate		High	m³/h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100	13700+13000	13700×2	13700×2	13700×2	13700+11100×2	13700+13000+11100	13700×2+11100	13700×2+11100	13700×2+11100	13700×3	13700×3	13700×3	13700×3
Sound pressure level / Power level		Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85	64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
		Heating		58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87	66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
External static pressure (Max)			Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output			kW	7.5	7.5	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5	11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions		Height	mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
		Width		930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930	1240×2	1240×2	1240×2	1240×2	1240+930×2	1240×2+930	1240×2+930	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight			kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255	279×2	279×2	279×2	279×2	279+255×2	279×2+255	279×2+255	279×2+255	279×2+255	279×3	279×3	279×3	279×3
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
		Charge	kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter		Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
		Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range		Cooling	°CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
		Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range			HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
																		
Set Model name				AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH	AJY216LNLBHH	AJY234LNLBHH	AJY252LNLBHH	AJY270LNLBHH	AJY288LNLBHH	AJY306LNLBHH	AJY324LNLBHH	AJY342LNLBHH	AJY360LNLBHH	AJY378LNLBHH	AJY396LNLBHH	AJY414LNLBHH
Unit 1 Unit 2 Unit 3				AJY072LNLBH AJY072LNLBH	AJY090LNLBH AJY072LNLBH	AJY108LNLBH AJY072LNLBH	AJY072LNLBH AJY072LNLBH AJY072LNLBH	AJY090LNLBH AJY072LNLBH AJY072LNLBH	AJY108LNLBH AJY072LNLBH AJY072LNLBH	AJY126LNLBH AJY072LNLBH AJY072LNLBH	AJY108LNLBH AJY108LNLBH AJY072LNLBH	AJY126LNLBH AJY108LNLBH AJY072LNLBH	AJY108LNLBH AJY108LNLBH AJY108LNLBH	AJY126LNLBH AJY108LNLBH AJY108LNLBH	AJY126LNLBH AJY126LNLBH AJY108LNLBH	AJY126LNLBH AJY126LNLBH AJY126LNLBH	AJY144LNLBH AJY126LNLBH AJY126LNLBH	AJY144LNLBH AJY144LNLBH AJY126LNLBH
Maximum Connectable Indoor Unit				26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit connectable capacity	Cooling		kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
Power source				3 phase 4 wire, 400 V, 50Hz							3 phase 4 wire, 400 V, 50Hz							
T1 condition	Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
		Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
		Cooling	Btu/h	152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	426500	443500
		Heating		170600	192800	213300	255900	278100	298600	324100	341300	366800	384000	409500	435000	460500	477600	494700
	Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36	23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
		Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
	Current	Cooling	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Heating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
	COP	Nominal Heating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
	EER	Cooling	Btu/h/W	14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
	COP	Heating		16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
T3 condition	Capacity	Cooling	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89.0	92.5	96.0	99.1	102.2
			Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	275300	291600	303600	315600	327600	338200	348800
	Input power		kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	26.78	28.03	29.39	30.75	32.11	33.22	34.34
	Current		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	3.01	3.05	3.03	3.01	2.99	2.98	2.98
			Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	10.28	10.40	10.33	10.26	10.20	10.18	10.16
Power factor			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Airflow rate		High	m³/h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2	13000×2+11100	13000×2+11100	13000×3	13000×3	13000×3	13000×3	13700+13000×2	13700×2+13000
Sound pressure level / Power level		Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84	61 / 82	63 / 84	62 / 83	63 / 84	64 / 85	65 / 88	66 / 87	66 / 87
		Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87	64 / 87	65 / 88	65 / 88	66 / 88	66 / 88	67 / 89	68 / 90	68 / 90
External static pressure (Max)			Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions		Height	mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
		Width		930×2	930×2	1240+930	930×3	930×3	1240+930×2	1240+930×2	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight			kg	255×2	255×2	279+255	255×3	255×3	279+255×2	279+255×2	279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
		Charge	kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter		Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
		Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operation range		Cooling	°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
		Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

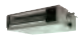
Note: Specifications are based on the following conditions.
Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.

VRF INDOOR UNITS

20 types and 97 models available to meet the requirements of any building design.

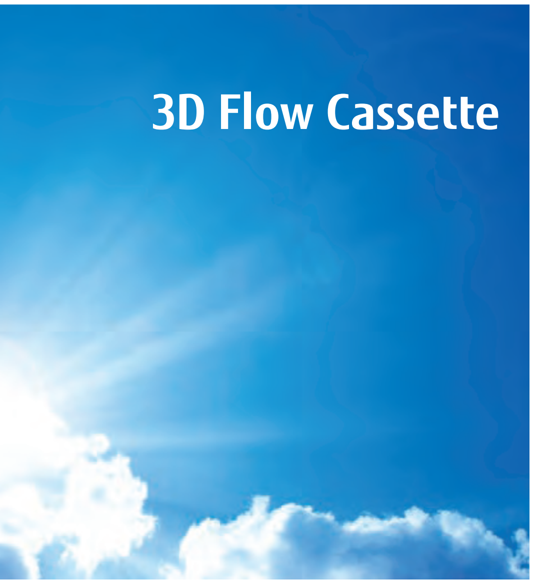
The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain. Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

VRF Indoor Unit Lineup

Capacity range (kW)				1.1	2.2	2.8	3.6	4.0	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
Class				4	7	9	12	14	14	18	24	30	34	36	45	54	60	72	90	96
Cassette	Compact type	Compact Grid type / Standard type		AUXB 004 GLEH	AUXB 007 GLEH	AUXB 009 GLEH	AUXB 012 GLEH		AUXB 014 GLEH	AUXB 018 GLEH	AUXB 024 GLEH									
	Slim type	Circular Flow				AUXN 009 GLAH*4*6	AUXN 012 GLAH*4*6		AUXN 014 GLAH*4*6	AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH								
		4-way Flow								AUXD 18 GALH	AUXD 24 GALH									
	Large type	Circular Flow								AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH				
		4-way Flow								AUXA 18 GALH*2	AUXA 24 GALH*2	AUXA 30 GALH	AUXA 34 GALH	AUXA 36 GALH	AUXA 45 GALH	AUXA 54 GALH				
	3D Flow	3D Flow								AUXS 018 GLEH	AUXS 024 GLEH									
Duct	Low Static Pressure Duct	Mini Duct (With drain pump)	 004 - 014  018  024	ARXK 004 GLGH	ARXK 007 GLGH	ARXK 009 GLGH	ARXK 012 GLGH		ARXK 014 GLGH	ARXK 018 GLGH	ARXK 024 GLGH									
		Slim Duct (With drain pump)	 04 / 007 - 014  018  024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH									
		Slim Duct High Efficiency*6	 009 - 014  018			ARXP 009 GLAH*5	ARXP 012 GLAH*5		ARXP 014 GLAH*5	ARXP 018 GLAH										
	Medium Static Pressure Duct	Normal									ARXA 024 GLEH	ARXA 030 GLEH		ARXA 036 GLEH	ARXA 045 GLEH					
		High Efficiency*6								ARXQ 018 GTAH*2	ARXQ 024 GTAH*2									
		High Efficiency*6									ARXP 024 GTAH	ARXP 030 GTAH								
	High Static Pressure Duct	Normal	 036 / 45 - 60  072 - 090  096											ARXC 036 GTEH	ARXC 45 GATH		ARXC 60 GATH*1	ARXC 072 GTEH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1
		High Efficiency*6										ARXQ 030 GTAH*2								
Floor		Floor (*Same as Ceiling models)					ABYA 012 GTEH		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH									
		Slim Concealed Floor (*Same as Slim Duct models)	 04 / 007 - 014  018  024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH									
		Compact Floor		AGYA 004 GCGH	AGYA 007 GCGH	AGYA 009 GCGH	AGYA 012 GCGH	AGYA 014 GCGH												
		Compact Floor (EEV external)		AGYE 004 GCEH	AGYE 007 GCEH	AGYE 009 GCEH	AGYE 012 GCEH	AGYE 014 GCEH												
				With this model, connection of EV kit is necessary.																
Ceiling			 012 - 024  030 - 054				ABYA 012 GTEH		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH	ABYA 030 GTEH		ABYA 036 GTEH	ABYA 045 GTEH	ABYA 054 GTEH				
Wall Mounted		Wall Mounted	 004 - 009  012 - 014  18 - 24  030 - 034	ASYA 004 GTEH	ASYA 007 GTEH	ASYA 009 GTEH	ASYA 012 GCEH	ASYA 014 GCEH		ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH							
		Wall Mounted (EEV external)	 004 - 009  012 - 014	ASYE 004 GTEH	ASYE 007 GTEH	ASYE 009 GTEH	ASYE 012 GCEH	ASYE 014 GCEH												
				With this model, connection of EV kit is necessary.																

*1: ARXC60/072/090/096G cannot be connected to J-IVS / J-IV Series.
*2: AUXA18/24GALH, ARXQ018/024/030GTAH type can be connected to VR-IV / V-III Series only.
*3: ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.
*4: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.
*5: ARXP009/012/014GLAH can be connected to J-IVS / J-IV / J-IVL Series only.
*6: Production by order

Specifications and design are subject to change without notice.



3D Flow Cassette

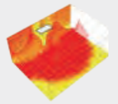
DC
FAN

3 Air Outlet Ports can be controlled individually

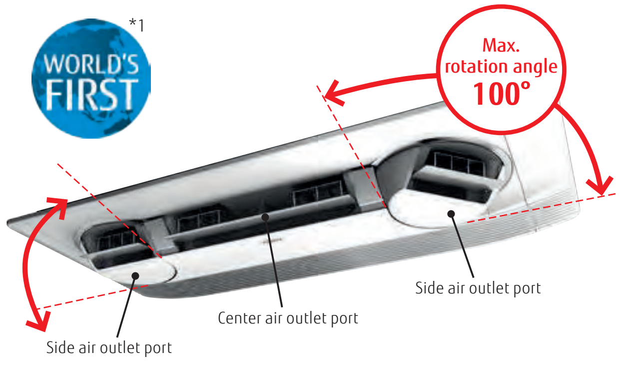
Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

Temperature distribution during cooling and heating
(when set to comfortable airflow)

Cooling: When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



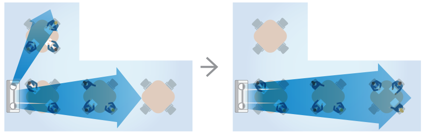
Heating: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



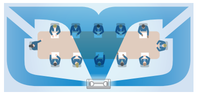
*1: Announced 2018. In room air conditioner for the home (our company's investigation)

Individual airflow setting

Equipped with an "Individual airflow setting" function that optimizes the airflow setting in accordance with the installation location.



Suitably setting the side air outlet ports to match how the space is used achieves air conditioning with no waste.



Optimum airflow control for improved comfort is achieved even for long rooms.

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3

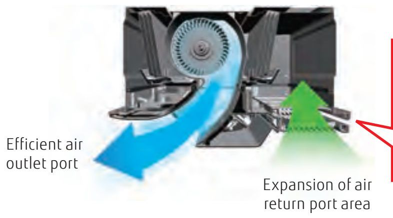
Individual air outlet port control

"Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

*Wired Remote Controller (Touch Panel) UTY-RNRYZ3 only

High Energy Saving

The "New structural design" featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.



Low power consumption
20 W*

*: 018 model

Model : AUXS018GLEH / AUXS024GLEH

Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.60	7.10
	Heating		6.30	8.00
Input power		W	20/28	34/43
Airflow rate*	High	m³/h	750/870	950/1,040
	Med-H		710/830	890/990
	Med		690/780	860/930
	Med-L		660/740	810/880
	Low		630/700	770/840
	Quiet		540/540	540/540
Sound pressure level*	High	dB(A)	38/41	43/46
	Med-H		36/40	42/45
	Med		35/39	41/43
	Med-L		35/37	40/42
	Low		33/36	38/40
	Quiet		29/29	29/29
Net Dimensions (H × W × D)		mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg(lbs)	25 (55)	25 (55)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52
	Gas (Flare)		12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-USYA-W	
	Net Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg(lbs)	11.5 (25)	

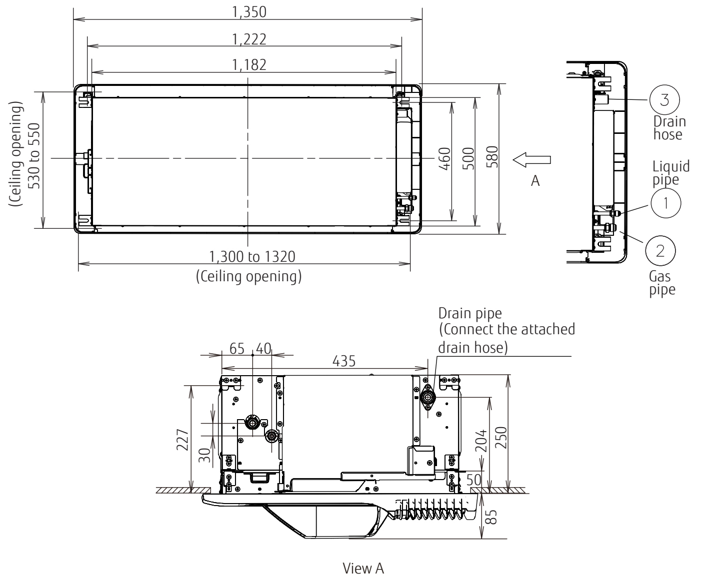
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: This value is "cooling operation / heating operation".

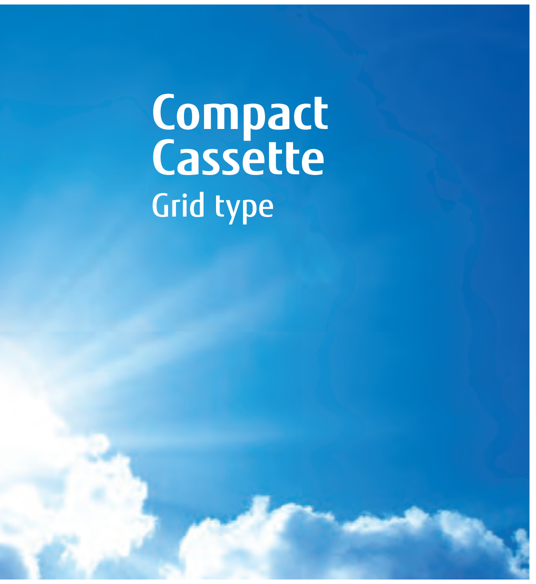
Optional parts

Wireless LAN Interface:	UTY-TFSXZ1
IR Receiver Unit:	UTY-TRHX
Cassette Grille:	UTG-USYA-W
External Power Supply Unit:	UTZ-GXXA

Dimensions

(Unit : mm)



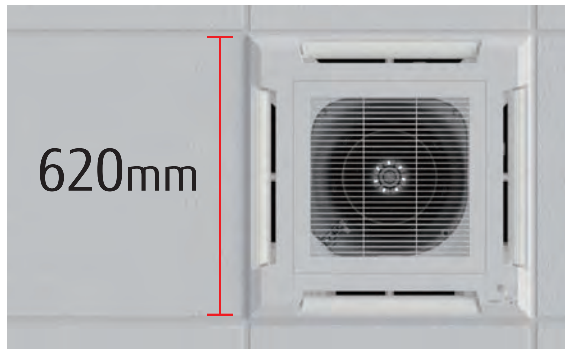


Compact Cassette
Grid type

DC FAN

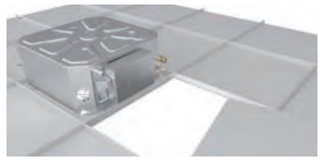
Compact and stylish panel design

Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of 620mm × 620mm grid ceiling.

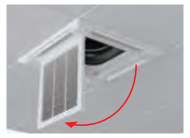


Easy maintenance

Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.



The air inlet grill can be installed in various directions, so maintenance is easy.



Flexible installation

It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.

High ceiling mode

The compact cassette can be installed up to a height of 3.0m (012/014/018/024).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	**High ceiling mode**
004	2.7	-
007	2.7	-
009	2.7	-
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

Model : AUXB004GLEH / AUXB007GLEH / AUXB009GLEH
AUXB012GLEH / AUXB014GLEH / AUXB018GLEH
AUXB024GLEH

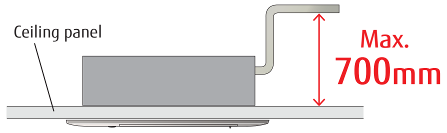
Specifications

Model name			AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	23	25	25	29	35	36	84
Airflow rate	High	m^3/h	530/530	540	550	600	680	710	1,030
	Med-H		490/480	500	520	560	620	660	910
	Med		450/430	460	480	520	560	590	790
	Med-L		420/380	420	440	480	500	520	680
	Low		390/340	390	400	430	440	460	560
	Quiet		350/300	350	350	390	390	400	450
Sound pressure level	High	dB(A)	34/34	34	35	37	38	41	50
	Med-H		32/31	32	33	34	37	39	46
	Med		30/29	30	31	33	34	36	43
	Med-L		28/26	28	29	31	32	33	39
	Low		27/24	27	27	29	30	30	35
	Quiet		25/21	25	25	27	27	27	30
Net Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	14.5 (32)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UFYE-W / UTG-UFYC-W						
	Net Dimensions (H×W×D)	mm	50 × 620 × 620 / 50 × 700 × 700						
	Weight	kg(lbs)	2.3(5.1) / 2.6(6)						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.

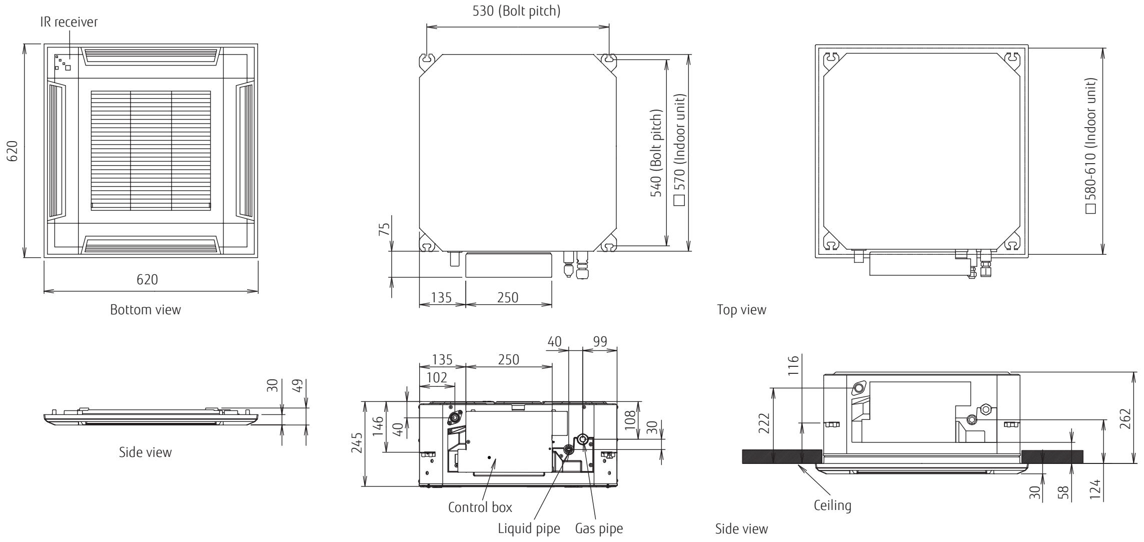
Optional parts

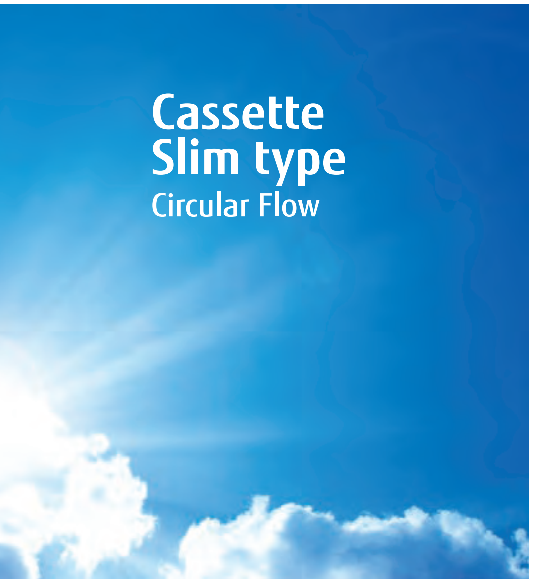
Air Outlet Shutter Plate:	UTR-YDZB	Casette Grille:	UTG-UFYC-W, UTG-UFYE-W
Flesh Air Intake Kit:	UTZ-VXAA	External Power Supply Unit:	UTZ-GXXA
Insulation Kit for High Humidity:	UTZ-KXGC	Wireless LAN Interface:	UTY-TFSXZ1



Dimensions

(Unit : mm)



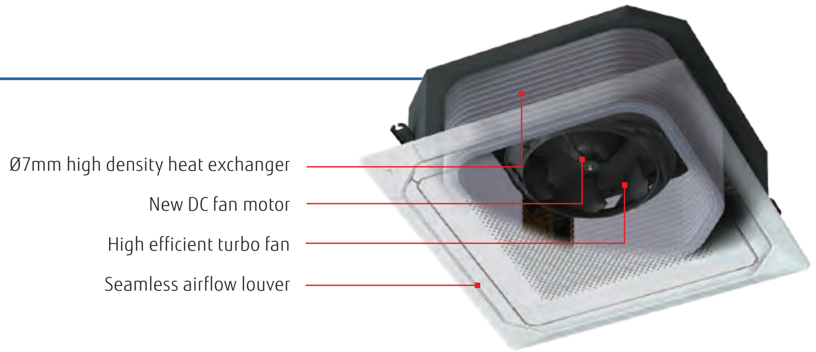


Cassette
Slim type
Circular Flow

DC FAN

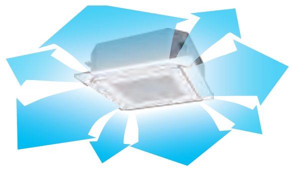
Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.



Uniform temperature air conditioning

Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.
* Touch Panel Wired RC (UTY-RNRYZ3) only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Efficient air conditioning based on the room layout

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.
*Touch Panel Wired RC (UTY-RNRYZ3) only

Human sensor (Option)

2 modes can be selected

Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

Model : AUXN009GLAH* / AUXN012GLAH* / AUXN014GLAH* * AUXN∗∗GLAH: Production by order
AUXM018GLEH / AUXM024GLEH / AUXM030GLEH

Specifications

Model name			AUXN009GLAH*	AUXN012GLAH*	AUXN014GLAH*	AUXM018GLEH	AUXM024GLEH	AUXM030GLEH
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0
	Heating		3.2	4.0	5.0	6.3	8.0	10.0
Input power		W	20	20	20	20	25	49
Airflow rate	High	m^3/h	1,050	1,050	1,050	1,050	1,120	1,470
	Med-H		930	930	930	930	1,050	1,160
	Med		900	900	900	900	930	1,070
	Med-L		870	870	870	870	900	930
	Low		810	810	810	810	870	900
	Quiet		780	780	780	780	780	780
Sound pressure level	High	dB(A)	33	33	33	33	35	40
	Med-H		32	32	32	32	33	36
	Med		31	31	31	31	32	34
	Med-L		30	30	30	30	31	32
	Low		29	29	29	29	30	31
	Quiet		28	28	28	28	28	28
Dimensions (H × W × D)		mm	246×840×840					
Weight		kg(lbs)	24.5 (54)	24.5 (54)	24.5 (54)	24.0 (53)	24.5 (54)	24.5 (54)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B					
	Dimensions (H×W×D)	mm	53×950×950					
	Weight	kg(lbs)	6.0 (13)					

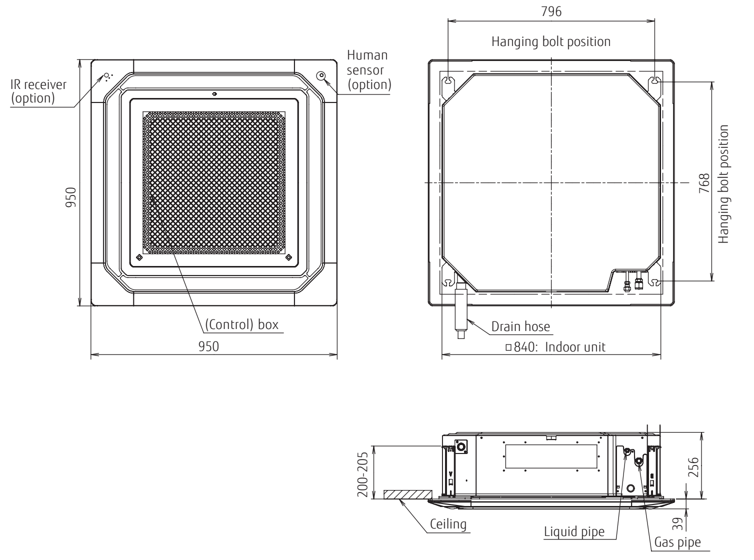
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.
*: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.

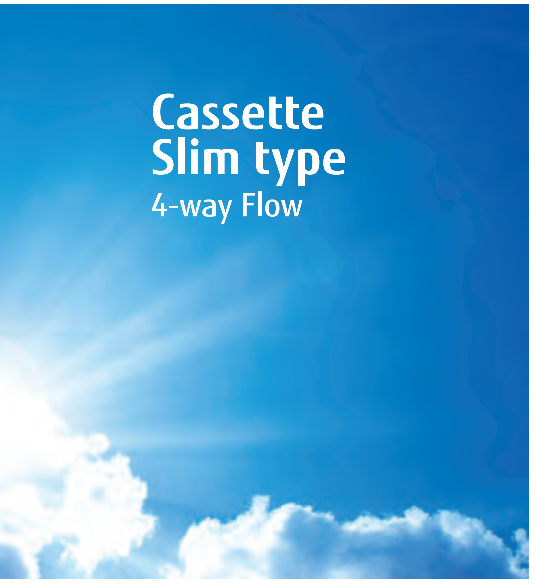
Optional parts

Human Sensor Kit:	UTY-SHZXC	Fresh Air Intake Kit:	UTZ-VXRA	Casette Grille:	UTG-UKYC-W, UTG-UKYA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)



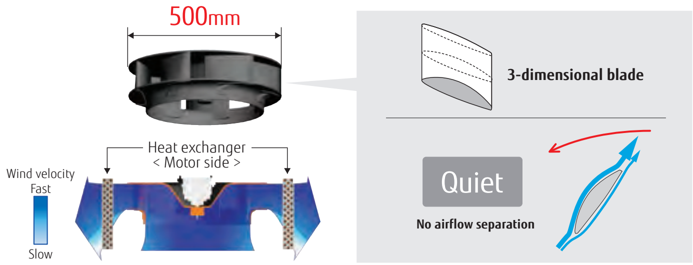


Cassette Slim type
4-way Flow

DC FAN

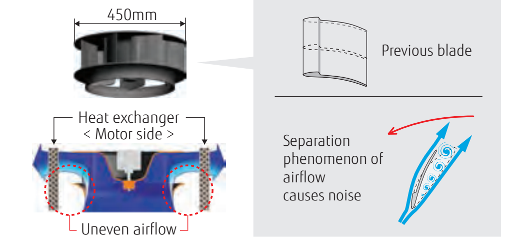
High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



Previous turbo fan

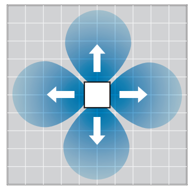
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



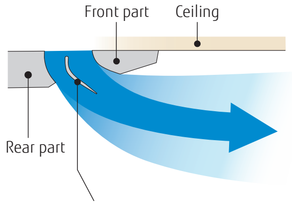
← : Spin direction ➡ : Airflow direction ꩜ : Turbulent flow noise

Improvement of the airflow distribution

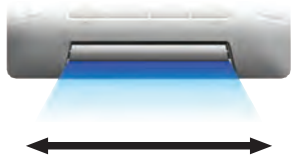
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



Bottom view

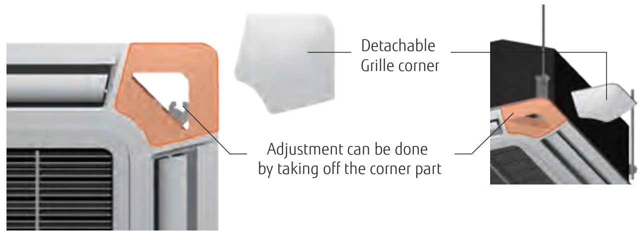


Round louvre



Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation



High ceiling mode

This cassette can be installed up to a height of 3.5m.

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.0	3.5
24	3.0	3.5

Model : AUXD18GALH / AUXD24GALH

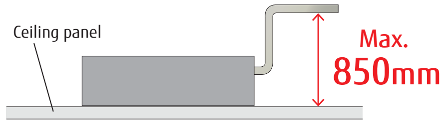
Specifications

Model name			AUXD18GALH	AUXD24GALH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating		6.3	8.0
Input power		W	39	46
Airflow rate	High	m^3/h	1,150 (319)	1,280 (356)
	Med		940 (261)	1,040 (289)
	Low		870 (242)	870 (242)
Sound pressure level	High	dB(A)	36	38
	Med		30	33
	Low		29	29
Net Dimensions (H × W × D)		mm	246 × 840 × 840	246 × 840 × 840
Weight		kg(lbs)	22 (49)	22 (49)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-UGYA-W	
	Net Dimensions (H×W×D)	mm	50 × 950 × 950	
	Weight	kg(lbs)	5.5 (12)	

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

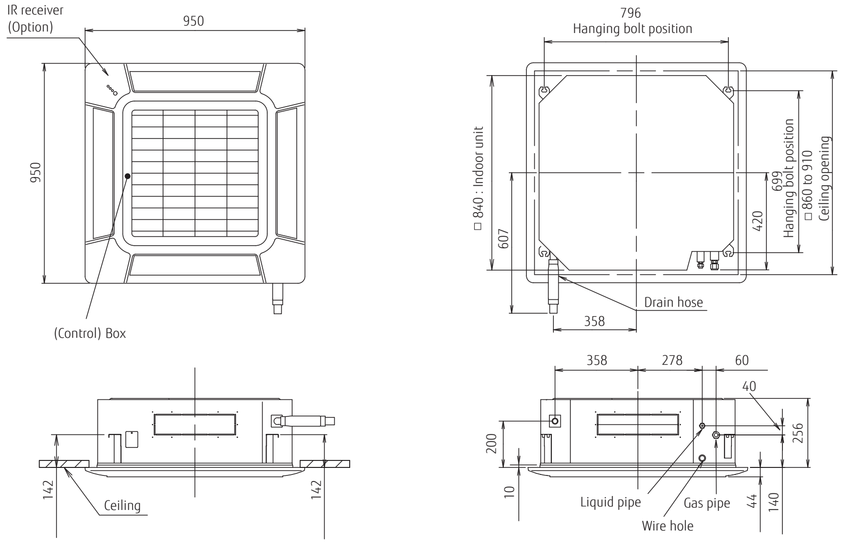
Optional parts

IR receiver unit:	UTY-LRHYB1
Air outlet shutter plate:	UTR-YDZC
Panel spacer:	UTG-BGYA-W
Insulation kit for high humidity:	UTZ-KXGB
Wide panel:	UTG-AGYA-W
Fresh air intake kit:	UTZ-VXGA
Cassette Grille:	UTG-UGYA-W
Wireless LAN Interface:	UTY-TFSXZ1



Dimensions

(Unit : mm)

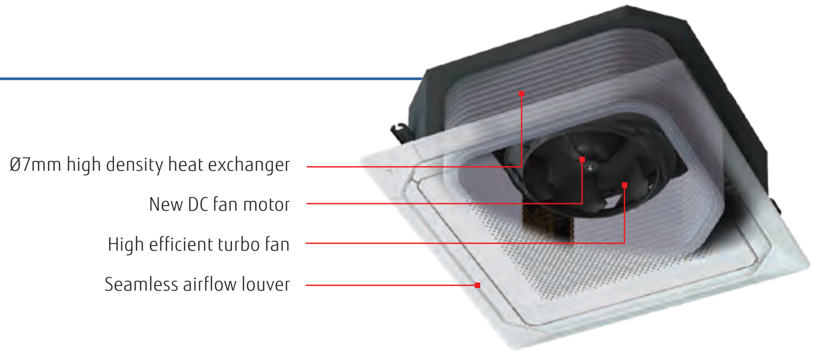


Cassette Large type
Circular Flow

DC FAN

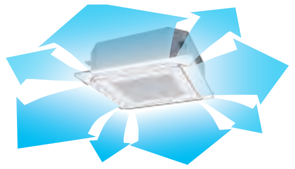
Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.



Uniform temperature air conditioning

Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.
* Touch Panel Wired RC (UTY-RNRYZ3) only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Efficient air conditioning based on the room layout

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.
*Touch Panel Wired RC (UTY-RNRYZ3) only

Human sensor (Option)

2 modes can be selected

Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

**Model : AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH**

Specifications

Model name			AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m^3/h	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-H		1,360	1,360	1,400	1,400	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-L		1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	38	38	39	39	41	44	47
	Med-H		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-L		35	35	36	36	37	38	39
	Low		34	34	35	35	36	36	36
	Quiet		33	33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840						
Weight		kg(lbs)	26.5 (58)	26.5 (58)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B						
	Dimensions (H×W×D)	mm	53×950×950						
	Weight	kg(lbs)	6.0 (13)						

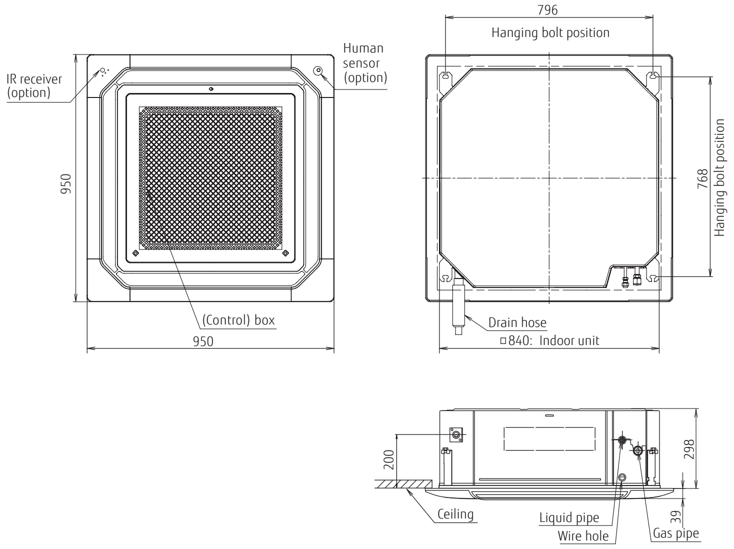
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

Optional parts

Human Sensor Kit:	UTY-SHZXC	Fresh Air Intake Kit:	UTZ-VXRA	Casette Grille:	UTG-UKYC-W, UTG-UKYA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)

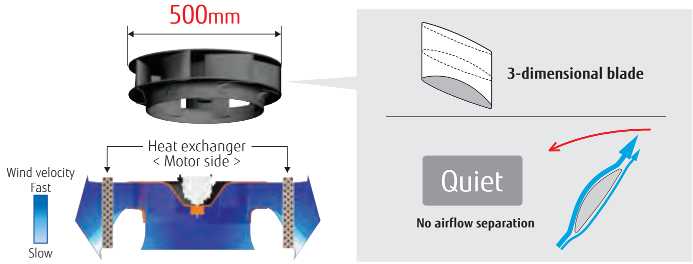


Cassette
Large type
4-way Flow

DC FAN

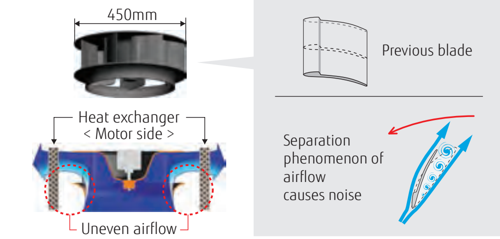
High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



Previous turbo fan

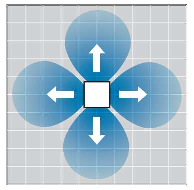
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



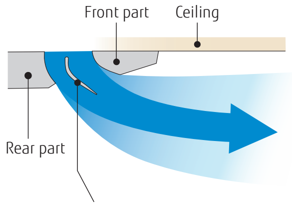
←: Spin direction ➡: Airflow direction ◌: Turbulent flow noise

Improvement of the airflow distribution

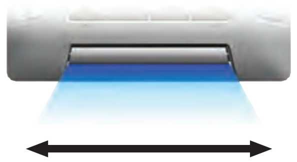
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



Bottom view

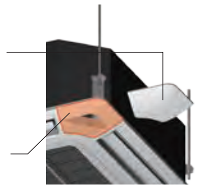


Round louvre



Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation



High ceiling mode

This cassette can be installed up to a height of 4.2m (36/45/54).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.2	3.5
24	3.2	3.5
30	3.2	3.6
34	3.2	3.6
36	3.2	4.2
45	3.2	4.2
54	3.2	4.2

Model : AUXA18GALH / AUXA24GALH / AUXA30GALH
AUXA34GALH / AUXA36GALH / AUXA45GALH
AUXA54GALH

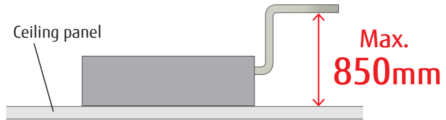
Specifications

Model name			AUXA18GALH*	AUXA24GALH*	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	51	51	59	77	80	99	119
Airflow rate	High	m^3/h	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)
	Med		1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	1,370 (381)
	Low		1,100/1,000*1(306/278)	1,100/1,000*1(306/278)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)
Sound pressure level	High	dB(A)	40	40	40	43	44	46	47
	Med		36	36	38	38	38	39	39
	Low		33/31*1	33/31*1	33/31*1	33/31*1	33/31*1	33/31*1	33/31*1
Net Dimensions (H × W × D)		mm	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight		kg(lbs)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	19.05	19.05	19.05	19.05
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UGYA-W						
	Net Dimensions (H×W×D)	mm	50 × 950 × 950						
	Weight	kg(lbs)	5.5 (12)						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.
*:AUXA18/24GALH can be connected to VR-IV / V-III Series only.

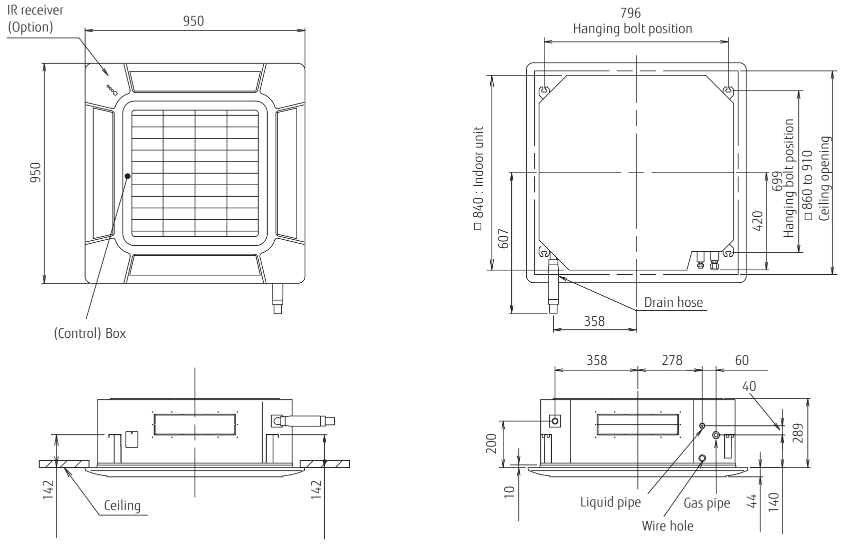
Optional parts

IR receiver unit:	UTY-LRHYB1
Air outlet shutter plate:	UTR-YDZC
Panel spacer:	UTG-BGYA-W
Insulation kit for high humidity:	UTZ-KXGA
Wide panel:	UTG-AGYA-W
Fresh air intake kit:	UTZ-VXGA
Wireless LAN Interface:	UTY-TFSXZ1
Cassette Grille:	UTG-UGYA-W



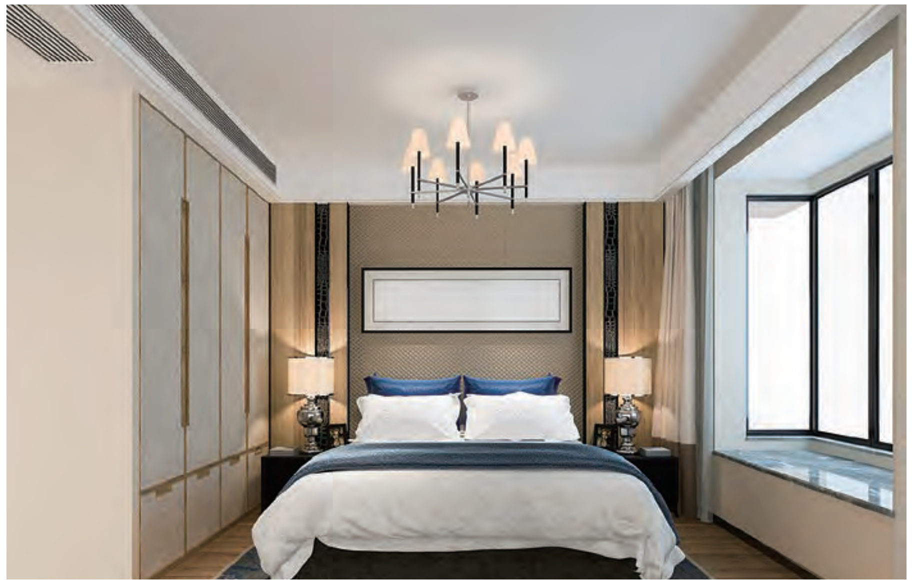
Dimensions

(Unit : mm)



Low Static Pressure Duct Mini Duct

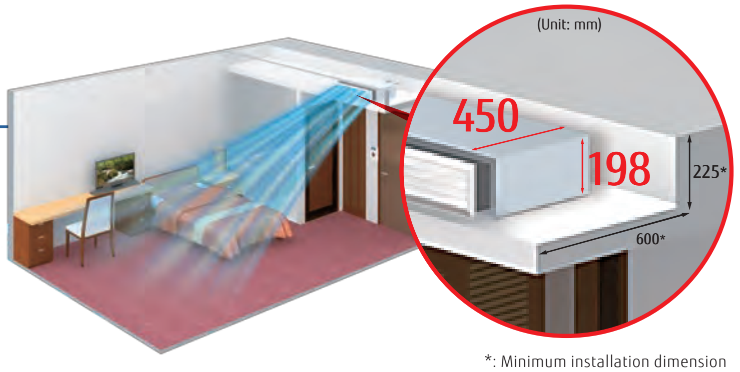
(With drain pump)



DC FAN

Large living space available

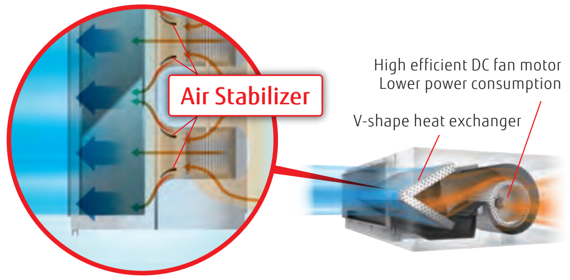
- Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design
- Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model
- Lightweight: 16kg 10%down



*: Minimum installation dimension

Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design

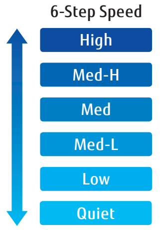


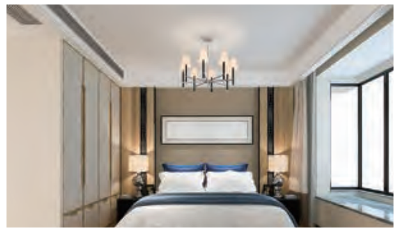
6-speed control*

Multistep airflow speed control allows this model to install in a quiet location.

Low noise
20dB(A)

at 04 model

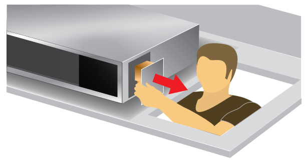




* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-DTGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Easy design and maintenance for drain

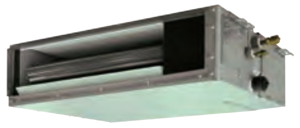
By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*.
The change of static pressure range is possible by remote controller.
*: 0 to 30 Pa. (004-012 models)



Built-in drain pump as standard :
Maintenance is easy

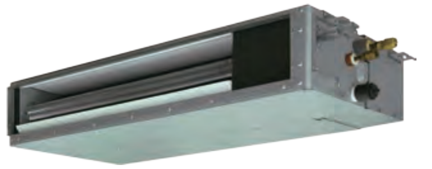
Parts can be replaced from the side of the body where maintenance is easier

**Model : ARXK004GLGH / ARXK007GLGH / ARXK009GLGH
ARXK012GLGH / ARXK014GLGH / ARXK018GLGH
ARXK024GLGH**



ARXK004/007/009/012/014GLGH

ARXK018GLGH



ARXK024GLGH

Specifications

Model name			ARXK004GLGH	ARXK007GLGH	ARXK009GLGH	ARXK012GLGH	ARXK014GLGH	ARXK018GLGH	ARXK024GLGH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	26	28	28	35	66	73	80
Airflow rate	High	m^3/h	460	460	460	550	760	930	1,160
	Med-H		440	440	440	520	660	840	1,060
	Med		420	420	420	480	560	740	960
	Med-L		400	400	400	450	490	640	860
	Low		370	370	370	410	410	540	750
	Quiet		340	340	340	340	340	470	610
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	10	15	15	15
Sound pressure level	High	dB(A)	25	26	26	29	34	33	32
	Med-H		24	25	25	27	31	30	30
	Med		23	24	24	26	28	28	28
	Med-L		22	23	23	25	26	26	27
	Low		21	22	22	24	24	24	25
	Quiet		20	21	21	22	22	22	22
Net Dimensions (H × W × D)		mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight		kg(lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	19 (42)	22.5 (50)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

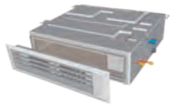
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Remote Sensor Unit :	UTY-XSZX	Auto Louver Grille Kit:	UTD-GXTA-W (004/007/009/012/014)
IR Receiver Unit :	UTB-YWC		UTD-GXTB-W (018)
External Power Supply Unit:	UTZ-GXXA		UTD-GXTC-W (024)

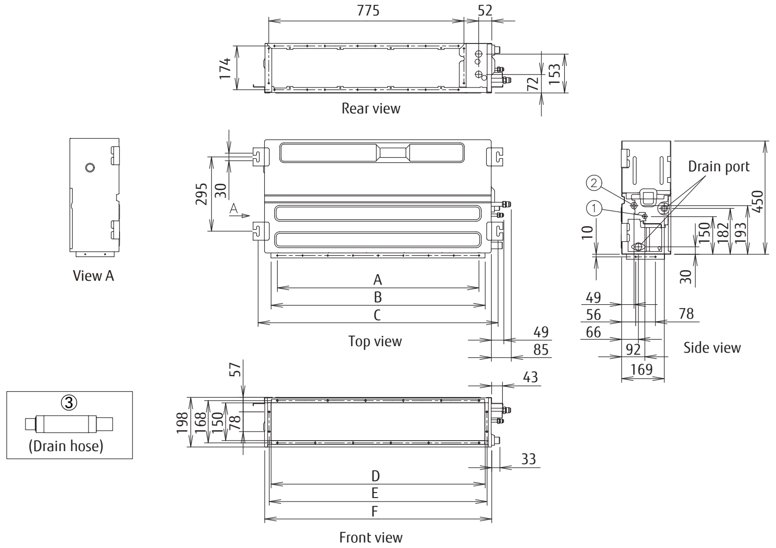
Auto Louver Grille Kit (Option)

Thin design provides a comfortable living environment over a wide area.
Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)



Dimensions

(Unit : mm)



① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose connection

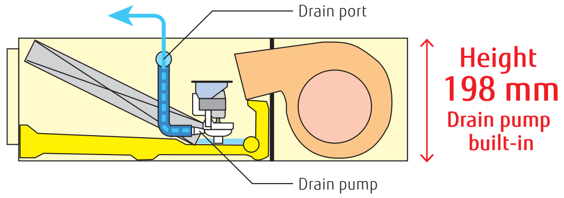
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Low Static Pressure Duct
Slim Duct / Slim Concealed Floor

DC FAN

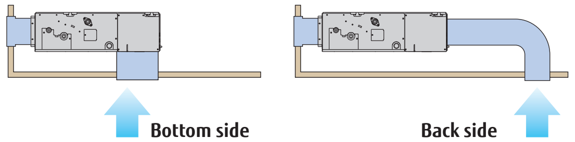
Slim design

With a slim design, this indoor unit can be installed in narrow ceiling spaces.



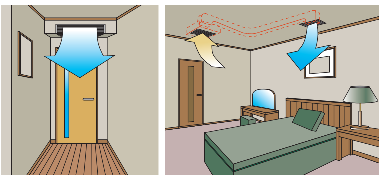
Air-intake

Air intake direction can be selected to match the installation site.

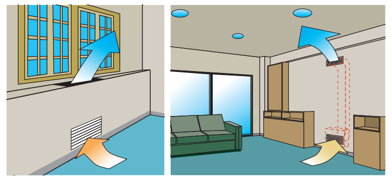


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

By using DC fan motor, it is possible to change the static pressure range from 0 to 90Pa. The change of static pressure range is possible by remote controller.

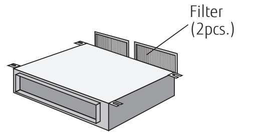
Static pressure range

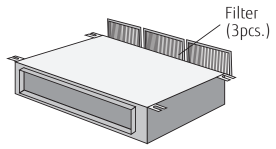
0 to 90Pa

*024 model is 0 to 50Pa

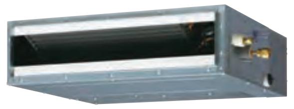
Filter (Accessory)

ARXD04/007/009/012/014/018 ARXD024





Model : ARXD04GALH / ARXD007GLEH / ARXD009GLEH
ARXD012GLEH / ARXD014GLEH / ARXD018GLEH
ARXD024GLEH



ARXD04GALH
ARXD007/009/012/014GLEH

ARXD018GLEH

ARXD024GLEH

Slim Concealed Floor

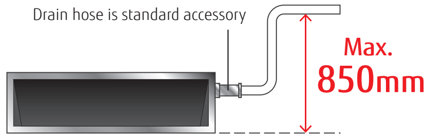
Specifications

Model name			ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m^3/h	510	550	600	600	800	940	1,330
	Med-H		-	480	510	530	680	820	1,140
	Med		400/470*1	440	460	490	600	730	1,020
	Med-L		-	410	420	450	520	630	900
	Low		320/440*1	370	370	410	440	540	780
	Quiet		-	320	320	340	340	470	610
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med-H		-	26	27	28	32	31	31
	Med		21/25*1	25	25	27	30	29	29
	Med-L		-	24	24	26	28	27	27
	Low		20/22*1	22	22	24	25	25	24
	Quiet		-	21	21	22	22	23	21
Net Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg(lbs)	17 (37)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.
*:ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

Optional parts

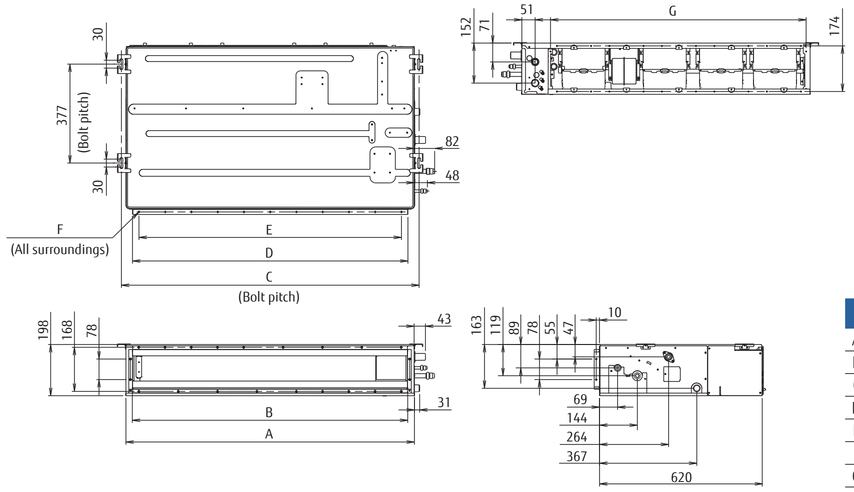
Remote Sensor Unit :	UTY-XSZX
IR Receiver Unit :	UTB-YWC (004)
	UTY-TRHX (007/009/012/014/018/024)
External Power Supply Unit :	UTZ-GXXA
Auto Louver Grille Kit:	UTD-GXTA-W (04/007/009/012/014)
	UTD-GXTB-W (018)
	UTD-GXTC-W (024)



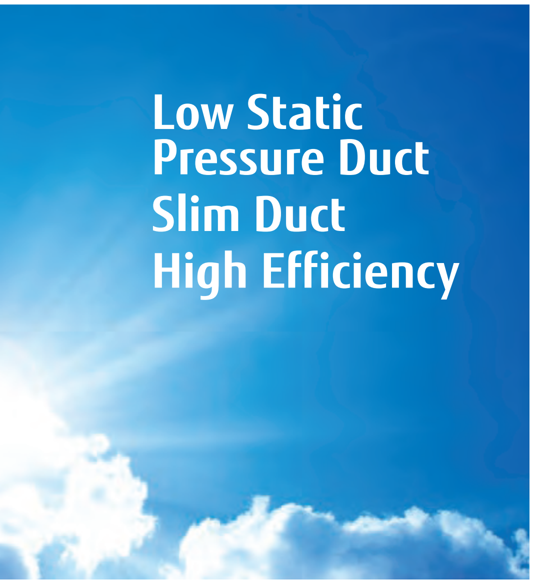
Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



	ARXD04-014	ARXD018	ARXD024
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100×6=600	P100×8=800	P100×10=1000
F	18×Ø5	22×Ø5	26×Ø5
G	574	774	974



Low Static Pressure Duct Slim Duct High Efficiency

DC FAN

Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

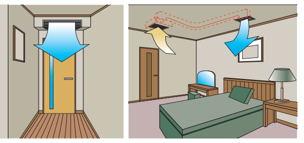
Slim & Compact design

(009/012/014)

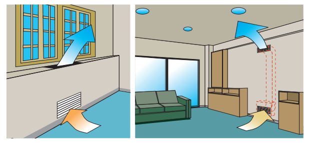
(018)

Flexible installation

Ceiling concealed

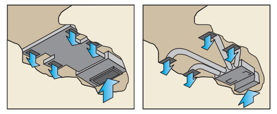


Floor concealed

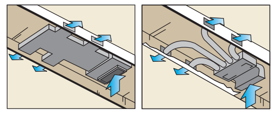


Installation styles

Embedded in Ceiling



Hanging from Ceiling



Model : ARXP009GLAH / ARXP012GLAH / ARXP014GLAH / ARXP018GLAH * Production by order

ARXP009 / 012 / 014GLAH

ARXP018GLAH

Specifications

Model name			ARXP009GLAH	ARXP012GLAH	ARXP014GLAH	ARXP018GLAH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	2.8	3.6	4.5	5.6
	Heating		3.2	4.0	5.0	6.3
Input power		W	88	122	122	173
Airflow rate	High	m^3/h	1,100	1,330	1,330	1,720
	Med-H		-	-	-	-
	Med		1,010	1,240	1,240	1,470
	Med-L		-	-	-	-
	Low		880	1,100	1,100	1,360
	Quiet		-	-	-	-
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 80
Standard static pressure			25	25	25	50
Sound pressure level	High	dB(A)	32	35	35	36
	Med-H		-	-	-	-
	Med		30	32	32	33
	Med-L		-	-	-	-
	Low		28	29	29	30
	Quiet		-	-	-	-
Net Dimensions (H × W × D)		mm	198 x 1,100 x 620	198 x 1,100 x 620	198 x 1,100 x 620	270 × 1,135 × 700
Weight		kg(lbs)	26(57)	26(57)	26(57)	40 (88)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)		12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
Low Static Pressure Duct Slim Duct High Efficiency can be connected to J-IVS / J-IV / J-IVL Series only.

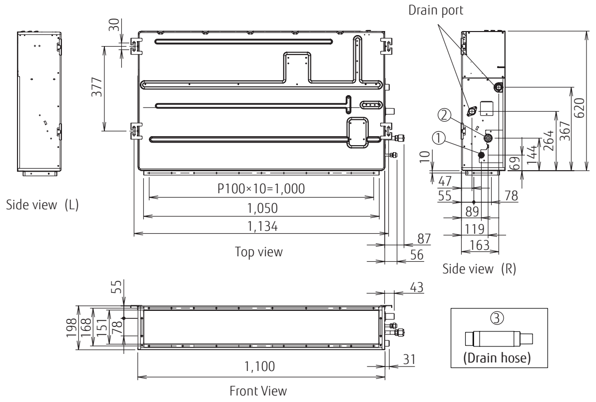
Optional parts

IR receiver unit:	UTB-YWC	**Drain pump unit:**	UTZ-PX1NBA (018)
Long life filter:	UTD-LF25NA (018) UTD-SF045T (018)	**Remote sensor unit:**	UTY-XSZX
		Auto Louver Grille Kit:	UTD-GXTC-W (009/012/014)
Flange:	UTD-RF204 (018)		

Dimensions

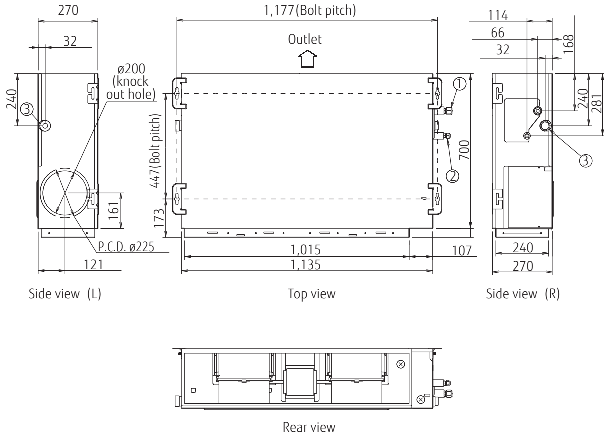
(Unit : mm)

Models: ARXP009 / ARXP012 / ARXP014



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Models: ARXP018



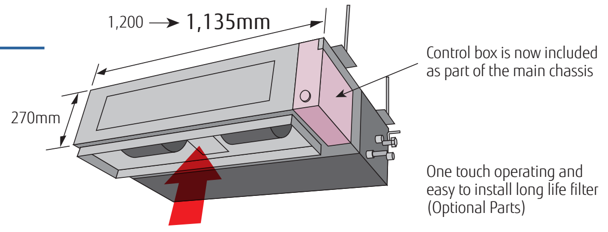
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Medium Static Pressure Duct Normal

DC FAN

Slim & Compact design

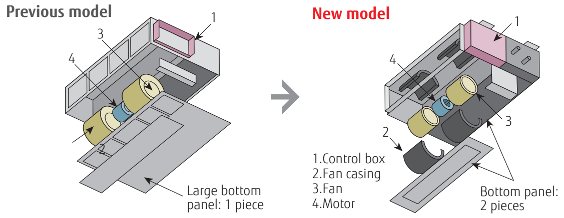
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



Easy maintenance

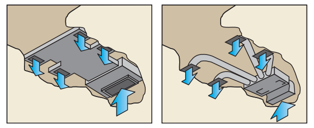
Structural improvement has been developed by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

See below for the case of rear suction type

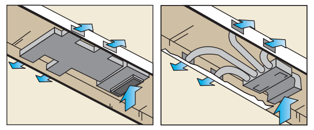


Installation styles

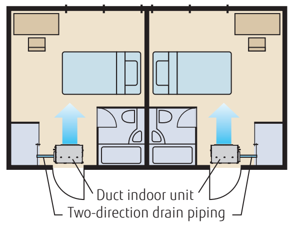
Embedded in Ceiling



Hanging from Ceiling



Two-direction drain piping



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.

024 model

030 / 036 / 045 model

Selectable with a wide range of static pressure

It is possible to change of static pressure range 0 to 150Pa.

Static pressure range
0 to 150Pa

Model : ARXA024GLEH / ARXA030GLEH / ARXA036GLEH / ARXA045GLEH

Specifications

Model name			ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m^3/h	1,280	1,410	1,840	1,970
	Med-H		1,180	1,350	1,750	1,910
	Med		1,090	1,280	1,660	1,860
	Med-L		1,000	1,240	1,600	1,780
	Low		920	1,190	1,530	1,710
	Quiet		840	1,150	1,470	1,640
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med-H		29	33	36	40
	Med		27	32	35	38
	Med-L		26	31	35	38
	Low		24	30	34	37
	Quiet		23	29	33	36
Net Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg(lbs)	36 (79)	40 (88)	40 (88)	40 (88)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

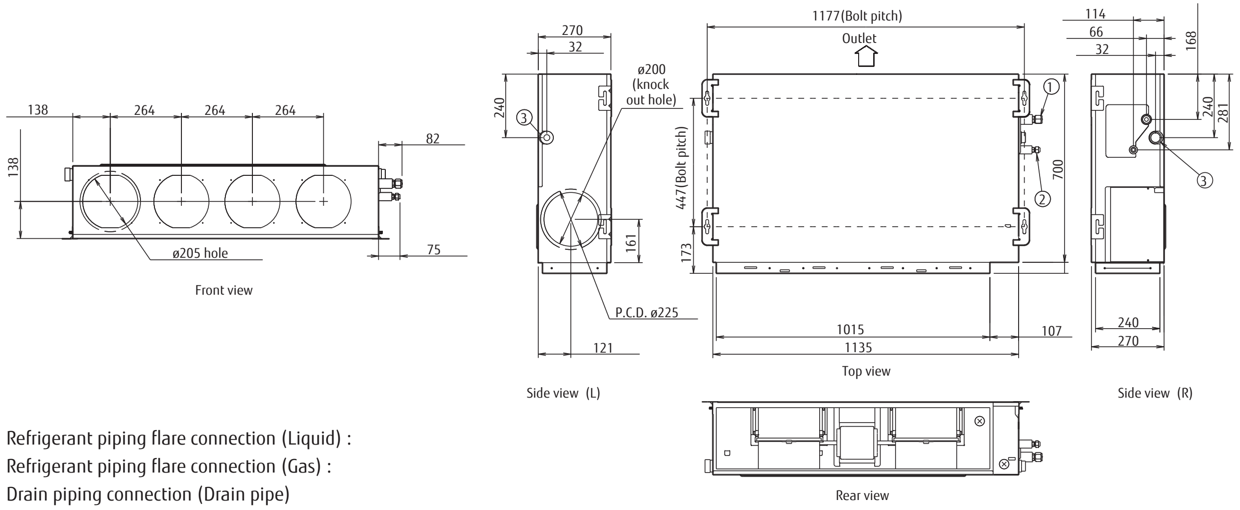
Optional parts

Long Life Filter :	UTD-LF25NA	IR Receiver Unit :	UTY-TRHX
Flange (Square) :	UTD-SF045T	Drain Pump Unit :	UTZ-PX1NBA
Flange (Round) :	UTD-RF204	Wireless LAN Interface :	UTY-TFSXZ1
External Power Supply Unit:	UTZ-GXXA		

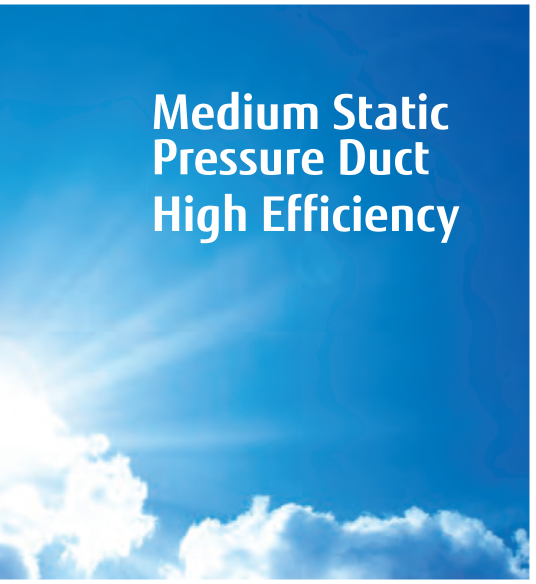
Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



① Refrigerant piping flare connection (Liquid) :
② Refrigerant piping flare connection (Gas) :
③ Drain piping connection (Drain pipe)

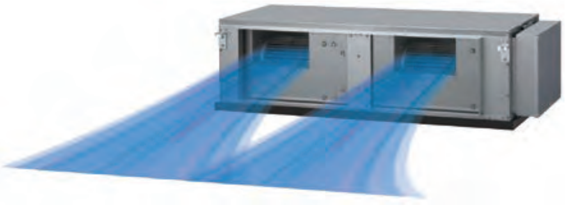


Medium Static Pressure Duct High Efficiency

DC FAN

Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.



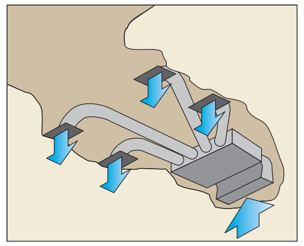
Selectable with a wide range of static pressure

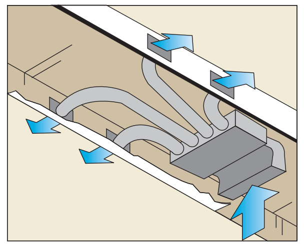
Static pressure range

50 to 150Pa

(ARXN024)

Installation styles





Model : ARXQ018GTAH / ARXQ024GTAH * Production by order

Specifications

Model name			ARXQ018GTAH	ARXQ024GTAH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating		6.3	8.0
Input power		W	154	205
Airflow rate	High	m^3/h	2,280	2,640
	Med		–	–
	Low		–	–
Static pressure range		Pa	50 to 100	50 to 150
Standard static pressure			50	50
Sound pressure level	High	dB(A)	35	37
	Med		–	–
	Low		–	–
Net Dimensions (H × W × D)		mm	450 × 1,587 × 700	450 × 1,587 × 700
Weight		kg(lbs)	84 (185)	84 (185)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)
	Gas		15.88 (Flare)	15.88 (Flare)
Drain hose diameter (I.D./O.D.)			25/32	

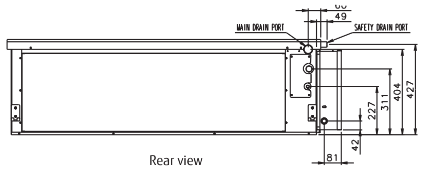
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*Medium Static Pressure Duct High Efficiency can be connected to V-III Series and VR-IV Series.

Optional parts

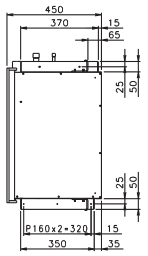
Remote Sensor Unit : UTY-XSZX

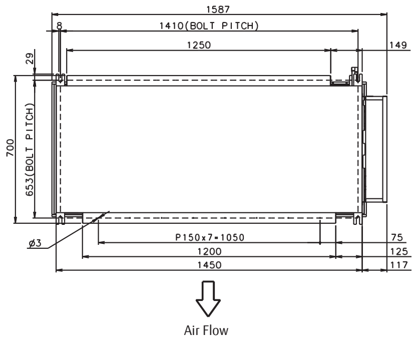
Dimensions

(Unit : mm)

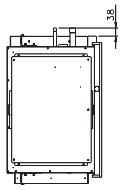


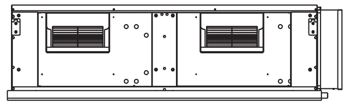
Rear view



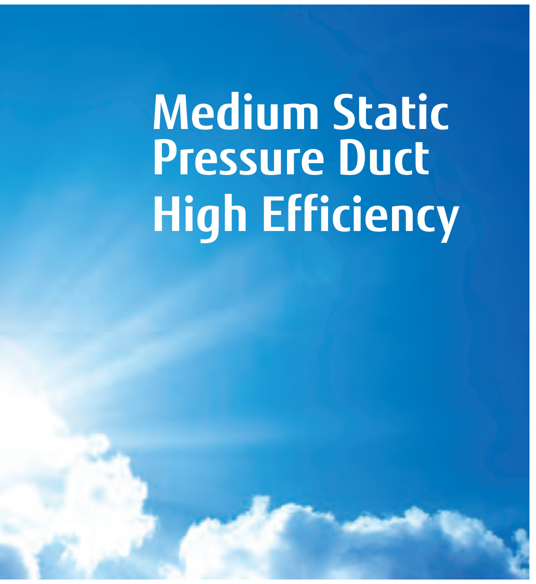


Top view





Front view



Medium Static Pressure Duct
High Efficiency

DC FAN

Large airflow volume

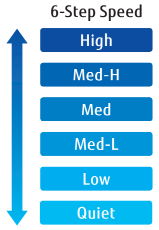
It can be installed in places such as early replacement of air required by large airflow volume.

Quiet operation

Multistep airflow speed control allows this model to be installed in a quiet location.

Low noise
26dB(A)

at 024/030 models



Slim & Compact design

Model : ARXP024GTAH / ARXP030GTAH * Production by order

Specifications

Model name			ARXP024GTAH	ARXP030GTAH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	7.1	9.0
	Heating		8.0	10.0
Input power		W	180	273
Airflow rate	High	m^3/h	2,100	2,700
	Med-H		2,050	2,390
	Med		1,860	2,080
	Med-L		1,660	1,770
	Low		1,470	1,470
	Quiet		1,260	1,260
Static pressure range		Pa	0 to 100	0 to 100
Standard static pressure			50	50
Sound pressure level	High	dB(A)	37	41
	Med-H		35	38
	Med		33	34
	Med-L		31	31
	Low		28	28
	Quiet		26	26
Net Dimensions (H × W × D)		mm	300 × 1,400 × 700	300 × 1,400 × 700
Weight		kg(lbs)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32	

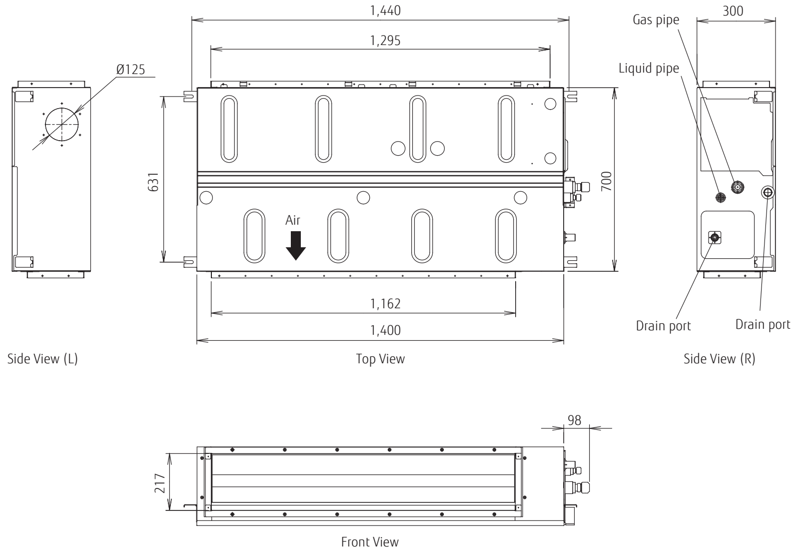
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

IR receiver unit:	UTB-YWC
Long life filter:	UTD-LFNA
Remote sensor unit:	UTY-XSZX

Dimensions

(Unit : mm)



Side View (L) Top View Side View (R)

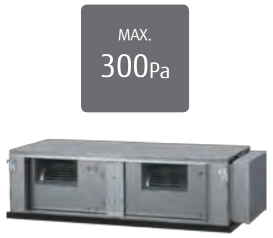
Front View

High Static Pressure Duct Normal

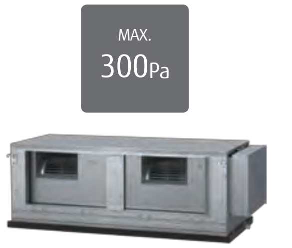
Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC072 / 090 / 096).

(ARXC036/45/60 type)



(ARXC072/090 type)

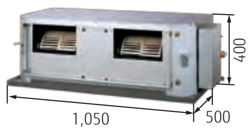


(ARXC096 type)

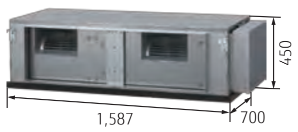
Easy installation (Compact size & Lightweight)

(unit: mm)

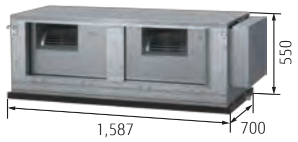
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



(ARXC036/45/60 type)



(ARXC072/090 type)

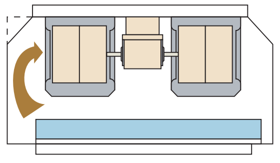


(ARXC096 type)

Low noise

Models : ARXC036 / ARXC45 / ARXC60

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.

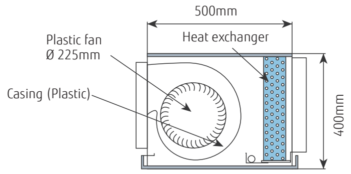


New model (ARXC036GTEH)

ARXC036GTEH :

Plastic fan [42dB(A)]

* Model : Material
(At 100Pa: Actual noise measurement value)



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.

(ARXC036 type)

(ARXC072 / 090 / 096 type)

**Model : ARXC036GTEH / ARXC45GATH / ARXC60GATH
ARXC072GTEH / ARXC090GTEH / ARXC096GTEH**

ARXC036GTEH
ARXC45/60GATH

ARXC072/090GTEH

ARXC096GTEH

Specifications

Model name			ARXC036GTEH	ARXC45GATH	ARXC60GATH*	ARXC072GTEH*	ARXC090GTEH*	ARXC096GTEH*
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0	28.0
	Heating		12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	715	730	681	819	838
Airflow rate	High	m^3/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB(A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg(lbs)	40 (88)	46 (101)	46 (101)	84 (185)	84 (185)	105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Brazing)
	Gas		15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25/32					

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: ARXC60/072/090/096G cannot be connected to J-IV/J-IVS Series.

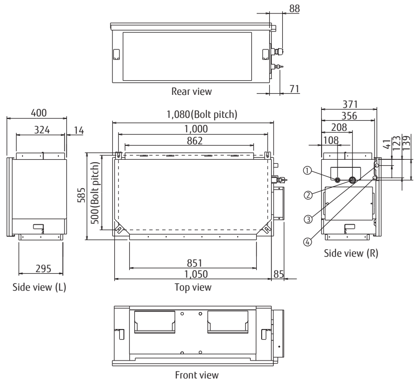
Optional parts

Long-Life Filter :	UTD-LF60KA (036/45/60)
IR Receiver Unit :	UTB-YWC (45/60) UTY-TRHX (036/072/090/096)
External Power Supply Unit :	UTZ-GXXA (036/072/090/096)
Wireless LAN Interface :	UTY-TFSXZ1 (036/072/090/096)

Dimensions

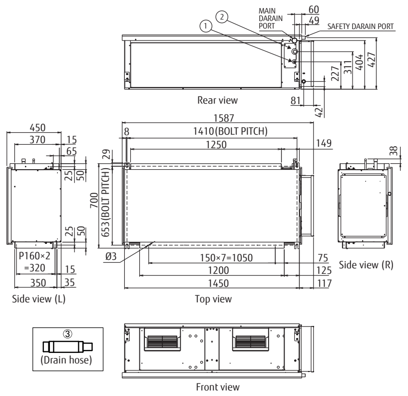
(Unit : mm)

Models: ARXC036 / ARXC45 / ARXC60



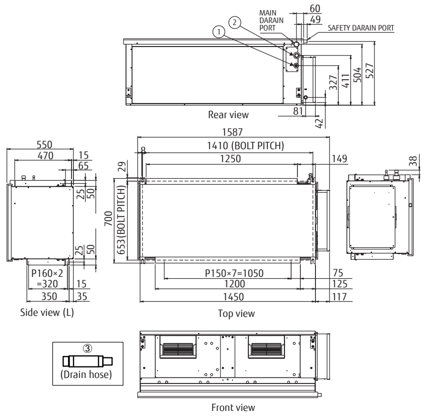
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Models: ARXC072 / ARXC090

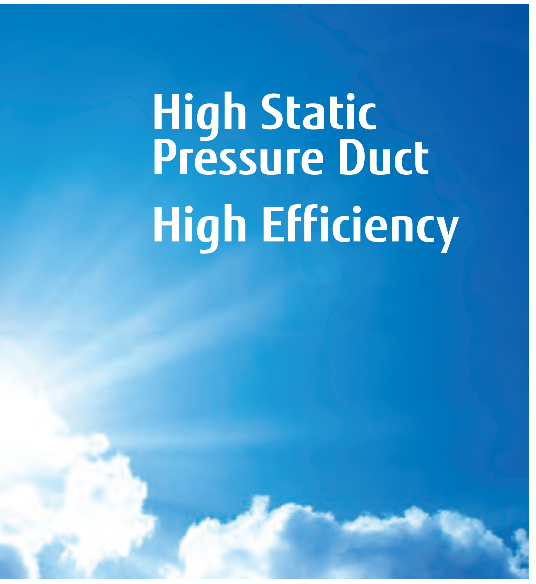


① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose

Models: ARXC096



① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose

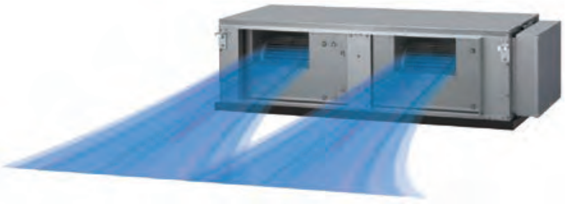


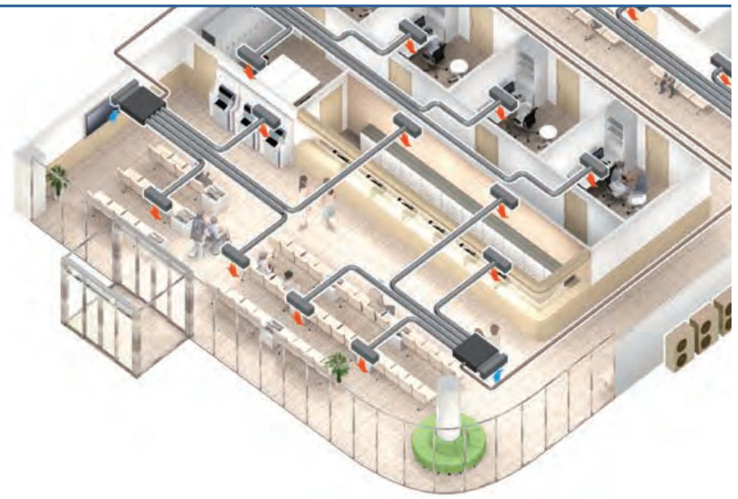
High Static Pressure Duct
High Efficiency

DC FAN

Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

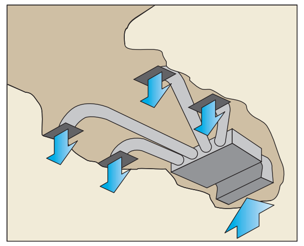


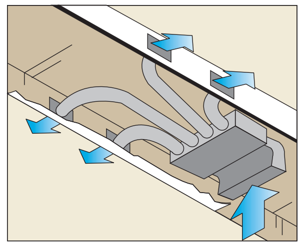


Selectable with a wide range of static pressure

Static pressure range
50 to 250Pa

Installation styles





Model : ARXQ030GTAH * Production by order

Specifications

Model name			ARXQ030GTAH
Power source			Single phase, ~230V, 50Hz
Capacity	Cooling	kW	9.0
	Heating		10.0
Input power		W	306
Airflow rate	High	m^3/h	3,200
	Med		–
	Low		–
Static pressure range		Pa	50 to 250
Standard static pressure			50
Sound pressure level	High	dB(A)	40
	Med		–
	Low		–
Net Dimensions (H × W × D)		mm	450 × 1,587 × 700
Weight		kg(lbs)	84 (185)
Connection pipe diameter	Liquid	mm	9.52 (Flare)
	Gas		15.88 (Flare)
Drain hose diameter (I.D./O.D.)			25/32

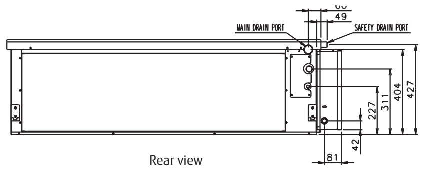
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*High Static Pressure Duct High Efficiency can be connected to V-III Series and VR-IV Series.

Optional parts

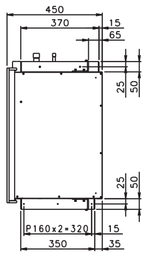
Remote Sensor Unit : UTY-XSZX
IR Receiver unit : UTY-TRHX

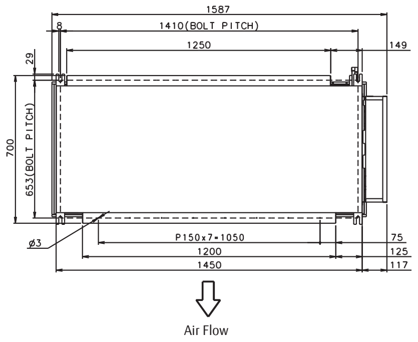
Dimensions

(Unit : mm)

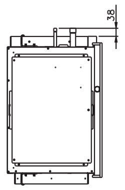


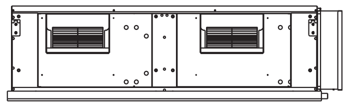
Rear view





Top view





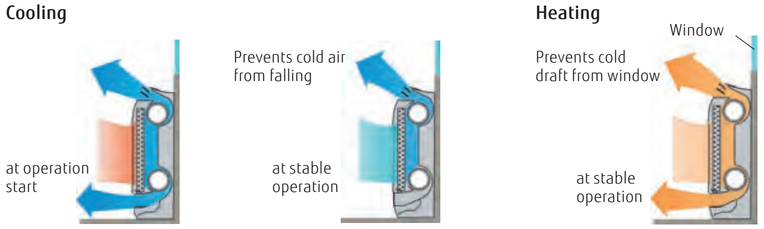
Front view

Compact floor

DC FAN

2-Fan & Wide airflow

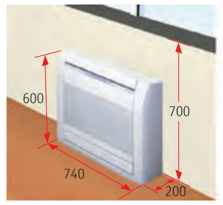
Individual vertical airflow by 2-fan can control the whole room comfortably.



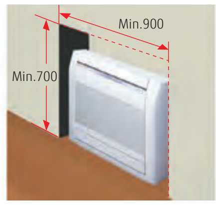
Flexible & easy installation

Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.

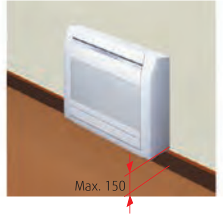
Beneath standard window



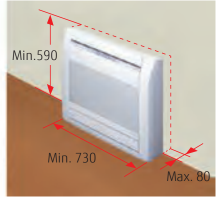
Standard concave portion



Wall



Half concealed
(Optional parts necessary)



(unit:mm)

Quiet operation

Quiet operation is realized by 6 fan speed control.
(via 2 wire controller)

Low noise
22dB(A)

at 004/007/009 models

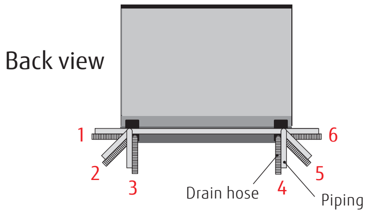
6-Step Speed

- High
- Med-H
- Med
- Med-L
- Low
- Quiet

* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-DTGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Flexible piping connection 6 direction of drain & piping

Drain hose and piping can be drawn flexibly in the right, left, side, and down directions



Model : AGYA004GCGH / AGYA007GCGH / AGYA009GCGH
AGYA012GCGH / AGYA014GCGH

[EEV external]
AGYE004GCEH / AGYE007GCEH / AGYE009GCEH
AGYE012GCEH / AGYE014GCEH

Specifications

TENTATIVE

Model name			AGYA004GCGH	AGYA007GCGH	AGYA009GCGH	AGYA012GCGH	AGYA014GCGH	AGYE004GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH
Power source			Single phase, ~230V, 50Hz					Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0
	Heating		1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	14	16	17	22	29	12 / 14	16	17	22	29
Airflow rate	High	m^3/h	380 / 430	470	500	590	670	380 / 430	470	500	590	670
	Med-H		350	420	450	520	590	350	420	450	520	590
	Med		320	390	400	470	520	320	390	400	470	520
	Med-L		310	360	360	420	450	310	360	360	420	450
	Low		280	330	330	390	390	280	330	330	390	390
	Quiet		210	270	270	340	340	210	270	270	340	340
Sound pressure level	High	dB(A)	35 / 36	37	38	42	46	35 / 36	37	38	42	46
	Med-H		33	35	36	39	42	33	35	36	39	42
	Med		31	33	34	37	39	31	33	34	37	39
	Med-L		30	31	31	35	36	30	31	31	35	36
	Low		28	29	29	33	33	28	29	29	33	33
	Quiet		22	22	22	30	30	22	22	22	30	30
Net Dimensions (H × W × D)		mm	600 x 740 x 200					600 x 740 x 200				
Weight		kg(lbs)	14.5(32)	15 (33)	15 (33)	15 (33)	15 (33)	14.5 (32)	14.5 (32)	14.5 (32)	14.5 (32)	14.5 (32)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8/15.8to16.7					13.8/15.8to16.7				
EV Kit (option)			-					UTR-EV09XB			UTR-EV14XB	

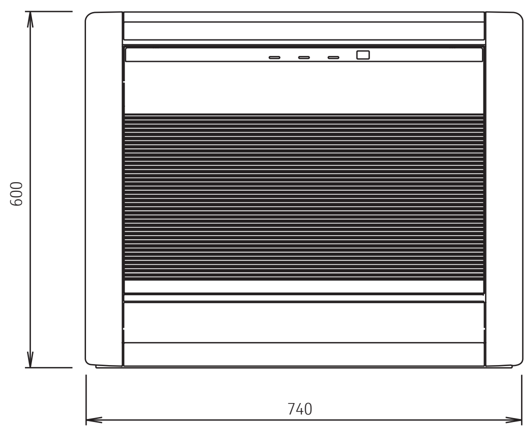
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AGYA004/007/009GCGH, AGYE004/007/009GCEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

Optional parts

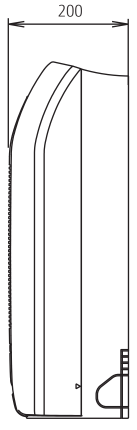
Half concealed kit:	UTR-STA
External Power Supply Unit :	UTZ-GXXA
Wireless LAN Interface :	UTY-TFSXZ1

Dimensions

(Unit : mm)



Front view



Side view

Floor / Ceiling

DC FAN

Flexible installation

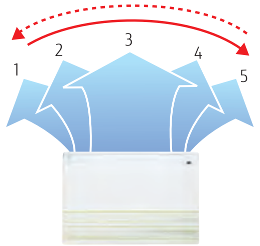
Example for floor installation
Floor console

Example for ceiling installation
Under ceiling

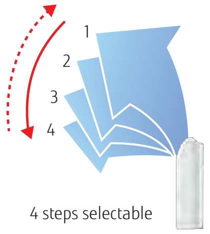
Double auto swing

A combination of up/down and right/left directional swing allows three-dimensional air direction control.

RIGHT and LEFT SWING



UP and DOWN SWING



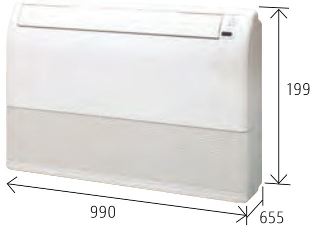
High power DC fan motor

- High power
- Wide rotation range
- High efficiency

Compact design

(Unit:mm)

Symmetrical, slim and compact design.



Model : ABYA012GTEH / ABYA014GTEH / ABYA018GTEH / ABYA024GTEH

Floor standing

Specifications

Model name			ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h	660	780	1,000	1,000
	Med-H		620	740	910	930
	Med		580	690	830	870
	Med-L		550	640	750	800
	Low		520	600	660	740
	Quiet		490	550	580	680
Sound pressure level	High	dB(A)	36	40	46	47
	Med-H		34	39	44	45
	Med		33	38	42	43
	Med-L		31	36	40	41
	Low		29	35	37	39
	Quiet		28	34	35	37
Net Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32			

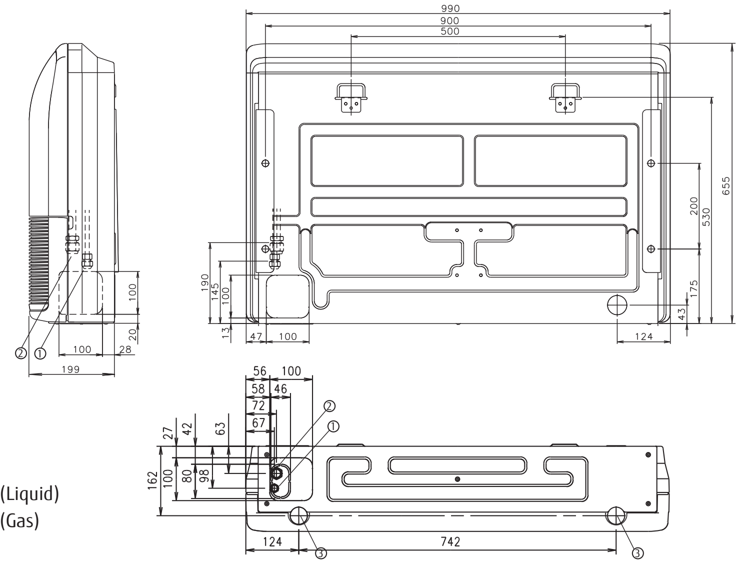
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



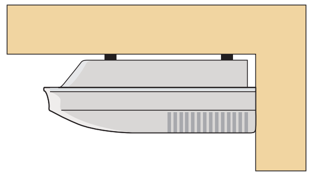
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Ceiling

DC FAN

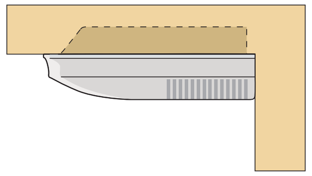
Installation

Open



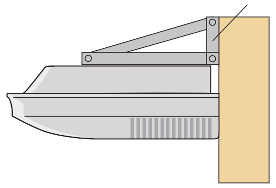
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



Installation pattern where part of the indoor unit is embedded into the ceiling.

Wall mounted (Field Supplied)

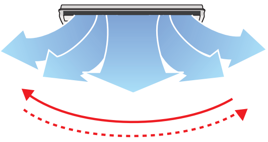


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

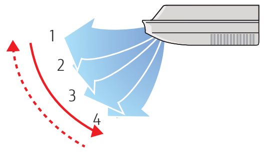
Auto airflow direction and auto swing

Right and left



5 steps selectable

Up and down



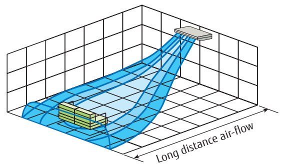
4 steps selectable

High power DC fan motor

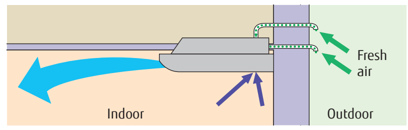
- High power
- Wide rotation range
- High efficiency

Long airflow

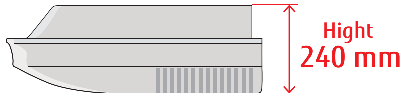
Long Airflow ensures comfort to every corner of a large room.



Fresh air intake



Slim & Compact design



Model : ABYA030GTEH / ABYA036GTEH / ABYA045GTEH / ABYA054GTEH

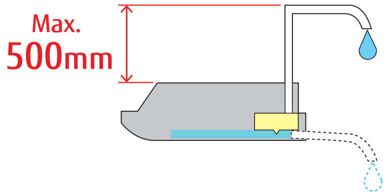
Specifications

Model name			ABYA030GTEH	ABYA036GTEH	ABYA045GTEH	ABYA054GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m^3/h	1,630	1,690	2,010	2,270
	Med-H		1,520	1,560	1,840	2,070
	Med		1,420	1,450	1,690	1,860
	Med-L		1,320	1,360	1,530	1,660
	Low		1,220	1,270	1,380	1,470
	Quiet		1,140	1,170	1,230	1,280
Sound pressure level	High	dB(A)	42	45	48	51
	Med-H		40	41	46	49
	Med		39	39	45	46
	Med-L		37	38	41	43
	Low		35	36	38	40
	Quiet		33	34	35	36
Net Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

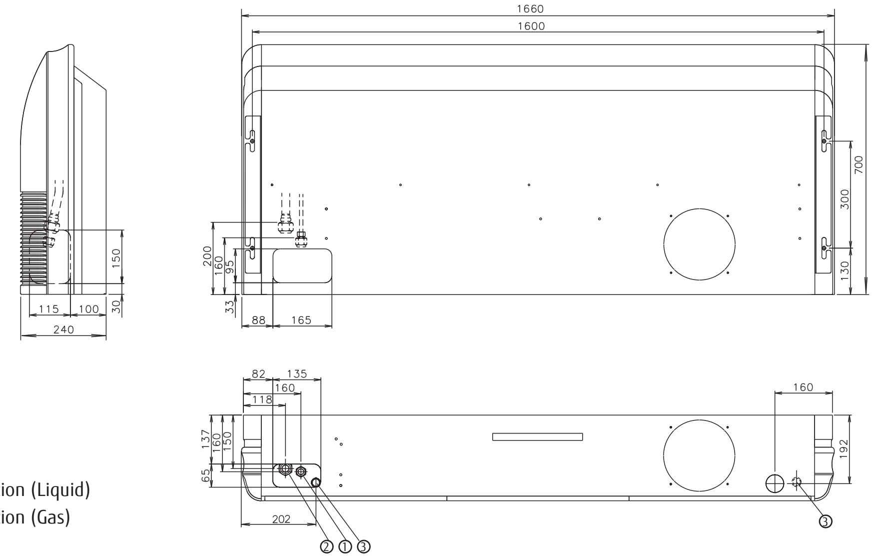
Optional parts

Drain Pump Unit : UTR-DPB24T
Flange : UTD-RF204
External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1



Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

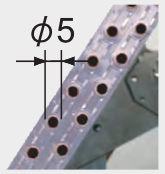
Wall Mounted

DC FAN

High efficient compact design

Ø5mm high density heat exchanger is mounted for the first time in the industry.

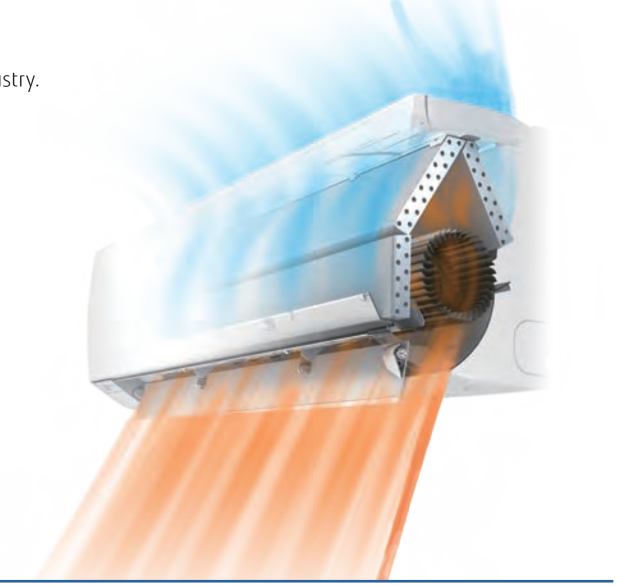
High density heat exchanger



Making the tube thin:

7mm → 5mm

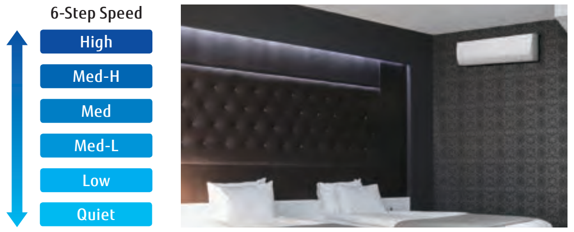
Increase of heat exchanger volume by high density and adopting sub heat exchanger



6 Fan Speed Control

Multistep airflow control is possible to suit the environment.

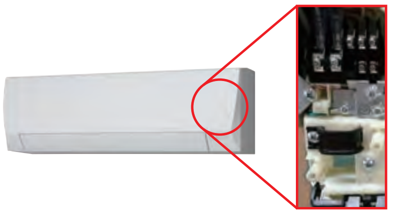
Fan speed	Low noise
Quiet	22dB(A)



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-DTGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Easy installation

Communication wiring can be installed easily by only opening the front panel and wire cover.



Optimized design matches to a small room

Efficient operation and refrigerant saving is achieved by optimum heat exchanger design suited for small rooms.

Model : ASYA004GTEH / ASYA007GTEH / ASYA009GTEH
ASYE004GTEH / ASYE007GTEH / ASYE009GTEH

Specifications

Model name			ASYA004GTEH	ASYA007GTEH	ASYA009GTEH	ASYE004GTEH	ASYE007GTEH	ASYE009GTEH
Power source			Single phase, ~230V, 50Hz			Single phase, ~230V, 50Hz		
Capacity	Cooling	kW	1.1	2.2	2.8	1.1	2.2	2.8
	Heating		1.3	2.8	3.2	1.3	2.8	3.2
Input power		W	13	19	34	13	19	34
Airflow rate	High	m^3/h	430	550	720	430	550	720
	Med-H		420	460	570	420	460	570
	Med		390	420	500	390	420	500
	Med-L		380	390	410	380	390	410
	Low		360	360	360	360	360	360
	Quiet		330	330	330	330	330	330
Sound pressure level	High	dB(A)	31	35	43	31	35	43
	Med-H		30	32	38	30	32	38
	Med		28	30	34	28	30	34
	Med-L		26	27	29	26	27	29
	Low		24	24	24	24	24	24
	Quiet		22	22	22	22	22	22
Net Dimensions (H × W × D)		mm	262 x 820 x 206	262 x 820 x 206	262 x 820 x 206	262 x 820 x 206	262 x 820 x 206	262 x 820 x 206
Weight		kg(lbs)	7.5 (17)	7.5 (17)	7.5 (17)	7.0 (15)	7.0 (15)	7.0 (15)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	9.52	9.52	9.52
Drain hose diameter (I.D./O.D.)			13.8/15.8 to16.7			13.8/15.8 to16.7		
EV Kit (option)			–			UTR-EV09XB		

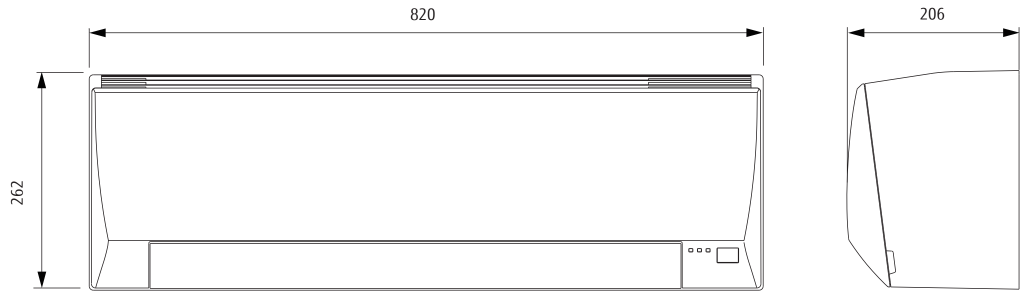
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASY*004GTEH, ASY*007GTEH, ASY*009GTEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



Wall Mounted

DC FAN

High efficient compact design

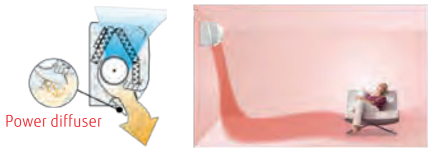
High efficient compact design is realized by mounting a high density and large heat exchanger. Compact body makes it possible to install discretely even in a meeting or office room and comfortable air conditioning is provided.

More comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

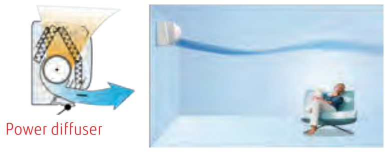
Heating

Vertical airflow provides powerful floor level heating



Cooling

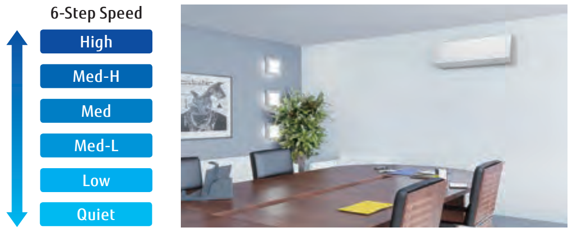
Horizontal airflow does not blow cool air directly at the occupants in the room.



6 Fan Speed Control

Multistep airflow control is possible to suit the environment.

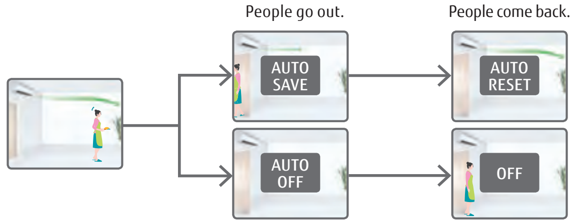
Fan speed	Low noise
Quiet	24dB(A)



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-DTGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.



Model : ASYA012GCEH / ASYA014GCEH
ASYE012GCEH / ASYE014GCEH

Specifications

Model name			ASYA012GCEH	ASYA014GCEH	ASYE012GCEH	ASYE014GCEH
Power source			Single phase, ~230V, 50Hz		Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	3.6	4.0	3.6	4.0
	Heating		4.0	4.5	4.0	4.5
Input power		W	25	36	25	36
Airflow rate	High	m^3/h	690	800	690	800
	Med-H		610	740	610	740
	Med		560	680	560	680
	Med-L		530	610	530	610
	Low		470	550	470	550
	Quiet		330	330	330	330
Sound pressure level	High	dB(A)	40	44	40	44
	Med-H		37	42	37	42
	Med		35	40	35	40
	Med-L		33	37	33	37
	Low		30	34	30	34
	Quiet		24	24	24	24
Net Dimensions (H × W × D)		mm	268 x 840 x 203	268 x 840 x 203	268 x 840 x 203	268 x 840 x 203
Weight		kg(lbs)	8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)		12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8/15.8 to16.7		13.8/15.8 to16.7	
EV Kit (option)			–		UTR-EV14XB	

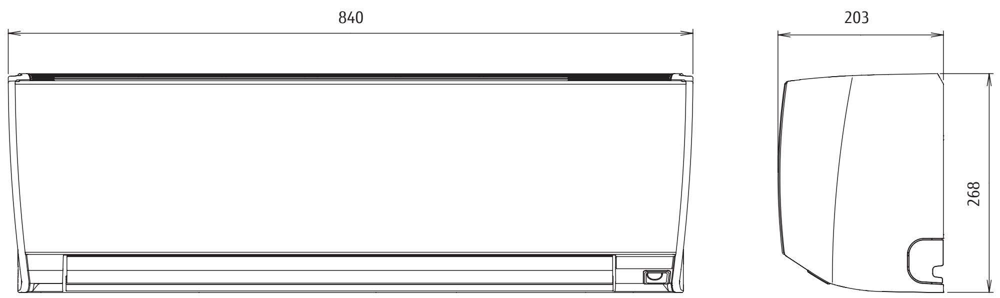
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



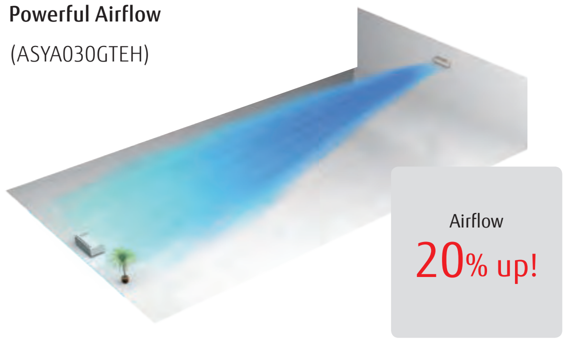
Wall Mounted

DC
FAN

Powerful & Comfort airflow

Powerful Airflow

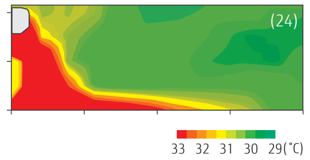
(ASYA030GTEH)



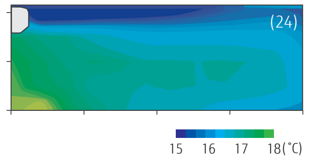
Power diffuser

(ASYA18/24GBCH)

Vertical airflow



Horizontal airflow

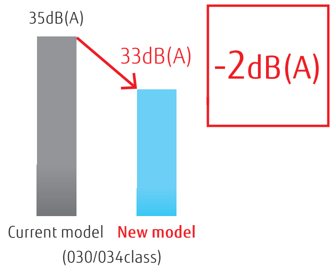


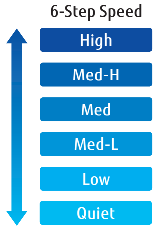
Human sensor (ASYA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the wasteful consumption of energy is reduced automatically to keep down electricity bills.
(Available to wired remote controller as UTY-RNRYZ3)

Quiet operation &
6 Fan speed control

Drastic low noise is achieved by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.





* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-DTGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Model : ASYA18GBCH / ASYA24GBCH
ASYA030GTEH / ASYA034GTEH

ASYA18/24GBCH

ASYA030/034GTEH

Specifications

Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source			Single phase, ~230V, 50Hz		Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1	9.0	10.0
	Heating		6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
Airflow rate	High	m^3/h	840	1,100	1,440	1,620 / 1,520
	Med-H		-	-	1,200	1,300
	Med		770	910	1,050	1,120
	Med-L		-	-	940	980
	Low		690	730	890	890
	Quiet		-	-	700	700
Sound pressure level	High	dB(A)	41	48	53	55 / 54
	Med-H		-	-	49	51
	Med		39	43	45	47
	Med-L		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Net Dimensions (H × W × D)		mm	320 x 998 x 238	320 x 998 x 238	340 x 1,150 x 280	340 x 1,150 x 280
Weight		kg(lbs)	15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12/16		13.8/15.8 to16.7	

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASYA18GBCH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

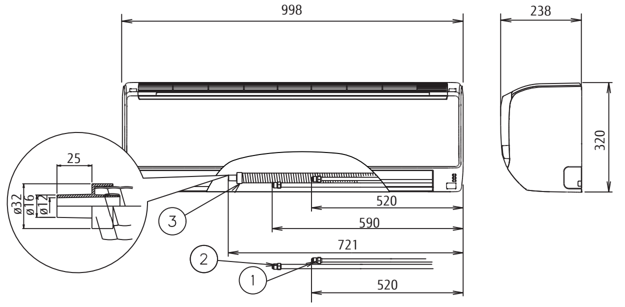
Optional parts

External Power Supply Unit : UTZ-GXXA (030/034)
Wireless LAN Interface : UTY-TFSXZ1 (030/034)

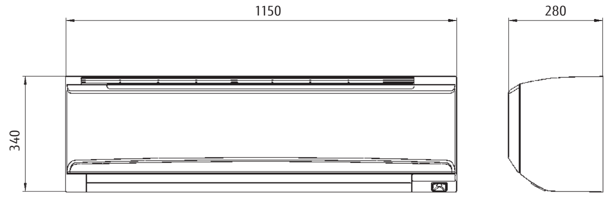
Dimensions

(Unit : mm)

Models: ASYA18 / ASYA24



Models: ASYA030 / ASYA034



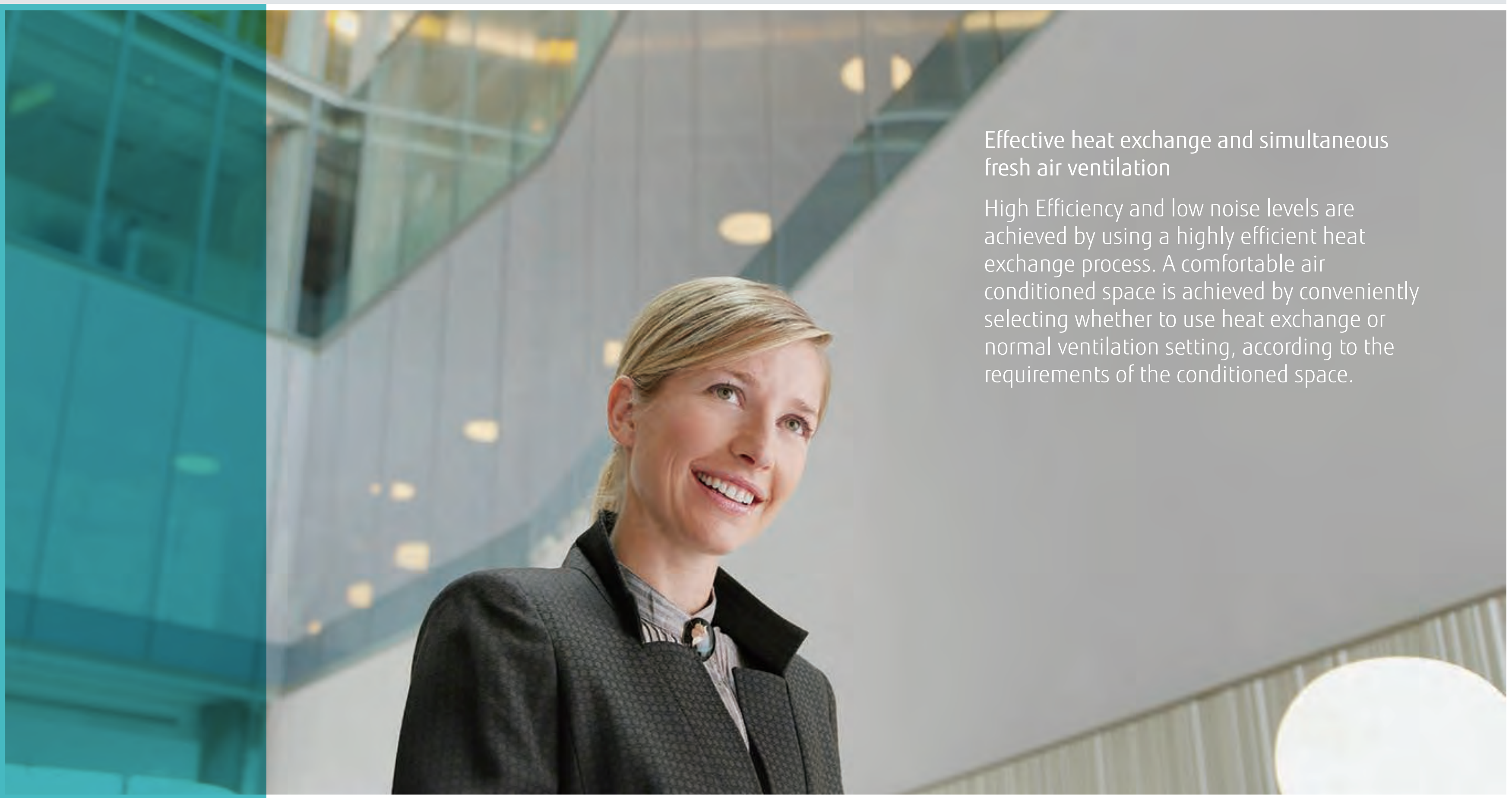
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Residential, Commercial & Light Commercial

VENTILATION

VENTILATION Lineup

Vn-002 Energy Recovery Ventilator
Vn-004 DX-Kit for Air Handling Application
  • for VRF Outdoor Unit
Vn-006 DX-Kit for Air Handling Application
  • for Single Split Outdoor Unit
Vn-008 AIR HANDLING UNIT



Effective heat exchange and simultaneous fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

Lineup

Airflow rate (m³/h)	250	350	500	800	1000
Energy Recovery Ventilator	 UTZ-BD025C	 UTZ-BD035C	 UTZ-BD050C	 UTZ-BD080C	 UTZ-BD100C

Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit **for Air Handling Applications** **for VRF Outdoor Unit**	 EEV unit UTP-VX30A  Control unit UTY-VDGX			 EEV unit UTP-VX60A  Control unit UTY-VDGX			 EEV unit UTP-VX90A  Control unit UTY-VDGX		 EEV unit UTP-VX90A×2  Control unit UTY-VDGX	

Connectable capacity class (kW)	3.5 - 22.0
DX-Kit **for Air Handling Applications** **for Single Split Outdoor Unit**	 UTY-XDZX

Connectable capacity class (kW)	25 - 96
Air Handling Unit NEW	 AHYA / AHYB / AHYC / AHYD / AHYE

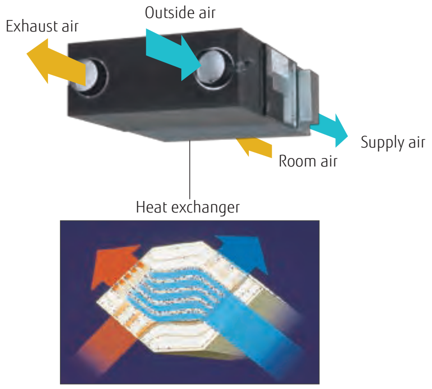
Energy Recovery Ventilator

Energy recovery ventilator unit offers maximum comfort and greater energy savings.

Heat exchange ventilation and normal ventilation

Heat exchange ventilation
When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.



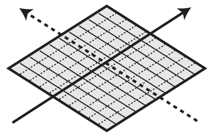
Adopts a highly efficient counter-flow heat exchange element

Energy efficiency and ecology

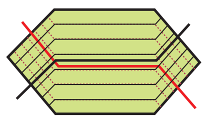
Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect improved.



Other element
(Cross-flow element)



Fujitsu element
(Counter-flow element)

Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

25.5dB
(UTZ-BD035C)

Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Slim shape and easier installation

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

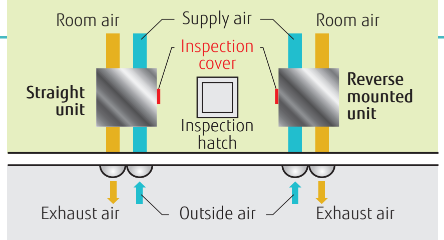
Height
270 mm
UTZ-BD025C

Height
388 mm
UTZ-BD080C/BD100C

Height
317 mm
UTZ-BD035C/BD050C

Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Simple remote operation

Easy operation by connecting a liquid crystal switch

- POWER ON/OFF
- ON/OFF Timer
- Air volume High/Low
- Clean filter display
- Heat exchange/Normal Ventilation

Model : UTZ-BD025C / UTZ-BD035C / UTZ-BD050C / UTZ-BD080C / UTZ-BD100C

UTZ-BD025C

UTZ-BD035C

UTZ-BD050C

UTZ-BD080C

UTZ-BD100C

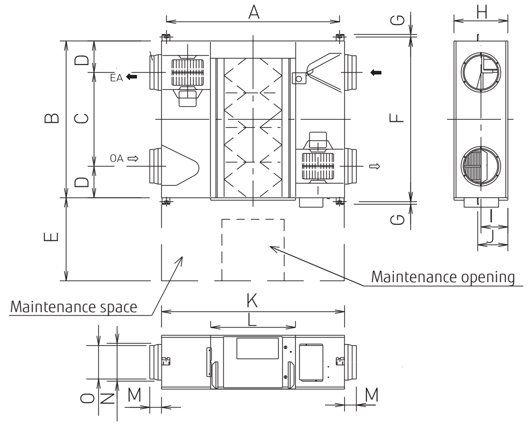
Specifications

Rated flow rate				250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h
Model No.				UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
Power source				220 - 240 V, 50Hz				
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0/31.0 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37.0 / 34.5	38.5 / 37.5 / 34.5
Normal Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0 / 31.0 / 25.5	38.5 / 38.0 / 32.5	37.5 / 37.0 / 34.5	40.5 / 39.5 / 36.5
Dimensions		W×D×H	mm	882 × 599 × 270	1,050 × 804 × 317	1,090 × 904 × 317	1,322 × 884 × 388	1,322 × 1,134 × 388
Weight			kg	29	49	57	71	83
Outlet duct diameter			mm	150	150	200	250	250
Operation range			°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40
Maximum humidity			%	85	85	85	85	85

* The noise level must be measured 1.5 m below the center of the unit.

Dimensions

(Unit : mm)



	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100B
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	1,322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
O	Ø144	Ø144	Ø194	Ø242	Ø242

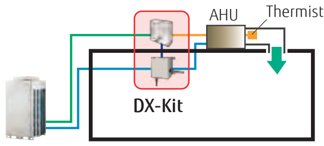
DX-Kit

for Air Handling Application

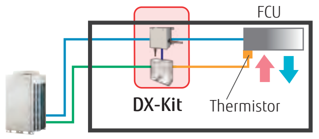
for VRF Outdoor Unit

These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

Multiple temperature sensors optimally control the air handling unit and fan coil unit.

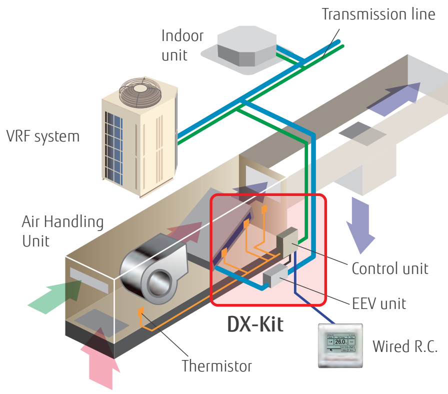


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



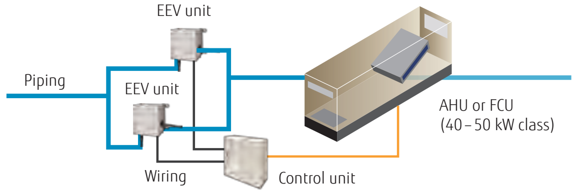
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



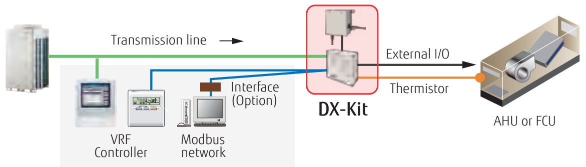
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

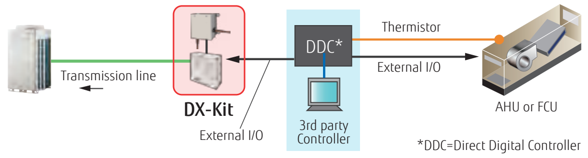


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



*DDC=Direct Digital Controller

Functions Summary

Inputs

- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

Outputs

- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

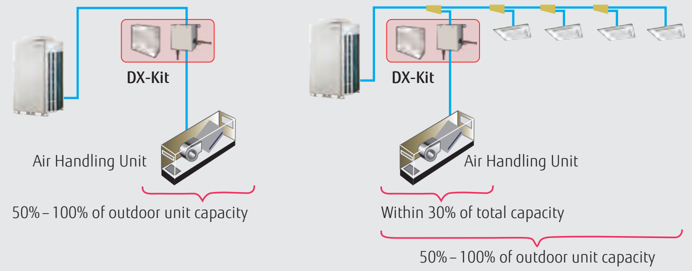
MODBUS® Control

Possible to control via a MODBUS enabled BMS by using optional interface.

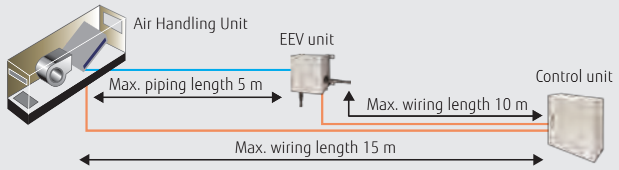
Installation Limitation

- Connectable VRF Series: All VRF Series
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity



Piping and wiring length



For 2 EEV units connection (option)
Separation Tube: UTP-LX180A

Control unit: UTY-VDGX
EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A

EEV unit
UTP-VX30A

EEV unit
UTP-VX60A

EEV unit
UTP-VX90A

Control unit
UTY-VDGX

Specifications

Connectable Capacity class			5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	kW	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating		6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5

Control unit		UTY-VDGX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	400 × 400 × 120

EEV unit		UTP-VX30A	UTP-VX60A	UTP-VX90A	UTP-VX90A×2
Connection pipe diameter (Liquid)	mm	Ø9.53	Ø12.70	Ø12.70	Ø12.70
Dimensions (H × W × D)		160 × 220 × 90			

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m Voltage : 230 [V].

DX-Kit

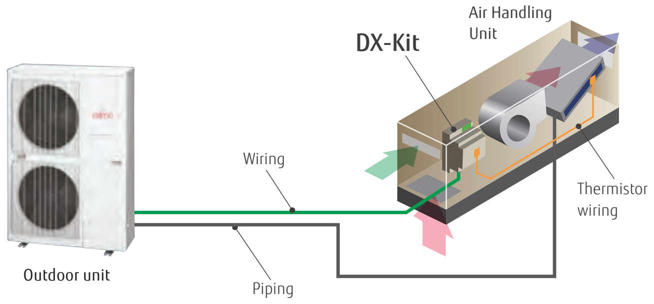
for Air Handling Application

for Single Split Outdoor Unit

This kit enables other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu General Split outdoor unit.

Flexible connectivity

This kit is a control unit to allow connection to third party manufacturer equipment. Fujitsu General single split outdoor units can be used with this control unit, creating an ideal solution when a unique air handling unit is required.

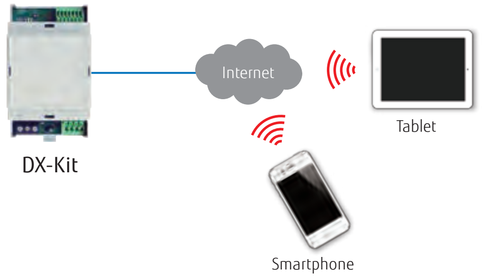


Supports a wide range of capacity class

Connectable large capacity range: 3.5 kW ~ 22.0 kW (Nominal)

Operation from anywhere on your mobile device

Available to use operation and management from remote control such as Smartphones and Tablets



Functions Summary

Inputs

- ON/OFF
- Heating/Cooling operation mode
- Capacity demand (analogue 0-10 V)
- Heat exchanger temperature

Outputs

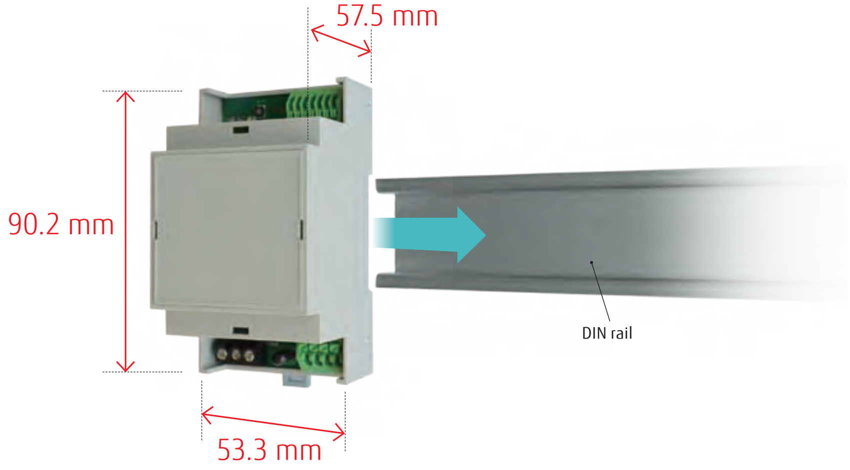
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

Wireless LAN Control

Wireless LAN control with cloud connectivity enables safe remote monitoring and control from anywhere.

Easy installation

- Simple installation through compact DIN rail mountable enclosure
- No need for expansion devise
- No separate external power required



model: UTY-XDZX

Specifications

BTU			12	14	18	24	30	36	45	54	60	72	90
Capacity (Nominal)	Cooling	kW	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
	Heating		4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0

Model No.		UTY-XDZX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	90.2 × 53.3 × 57.5
Weight	g	110

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 5.0 m Voltage : 230 [V].

Light Commercial & Commercial

AIR HANDLING UNIT

System Overview

The Air handling applications for AIRSTAGE™ system is the Fujitsu general offer to the most demanding installations, where energy efficiency meets with the highest comfort.

The system is composed of AIRSTAGE™ outdoor unit from 10 to 54 HP and Air handling unit for civil and industrial buildings for thermo-ventilation and air conditioning purposes, covering air flow ranges from 4,300 to 18,100 m3/h and cooling capacities from 25 to 96 kW.

- For AHU control: AHU controller (Only For AHU)
- For mixed connection control: System controller, or 3rd party controller with Modbus convertor

The Advantages of the System

Full comfort

The system offers full comfort and air quality in the buildings providing clean treated air thanks to the advanced filtration and balanced temperature.

Easy design and installation

The system is Simple design and installation. No additional external kit is required as the Air Handling Unit includes DX-kit (Expansion valve and control PCB) AHU model selection is easy by using Selection Software.

Total solution concept

Integrating an Air Handling Unit into the total building climate system simplifies both design and installation procedures based on a single common technology. From project follow-up to installation, commissioning and maintenance, all procedures are simplified. There is a requirement for not more than one installer.

AIRSTAGE™ Lineup

Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE™ Series matched to the size and application of the property.

Capacity (kW)		28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0
HP		10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
J-IVL Series		 AJY090 LELBH	 AJY108 LELBH	 AJY126 LELBH	 AJY144 LELBH	 AJY162 LELBH																		
V-III Series Heat Pump	Space Saving Set Model	 AJY090 LALBH	 AJY108 LALBH	 AJY126 LALBH	 AJY144 LALBH	 AJY162 LALBH	 AJY180 LALBH	 AJY198 LALBH	 AJY216 LALBH	 AJY234 LALBH	 AJY252 LALBH	 AJY270 LALBH	 AJY288 LALBH	 AJY306 LALBH	 AJY324 LALBH	 AJY342 LALBH	 AJY360 LALBH	 AJY378 LALBH	 AJY396 LALBH	 AJY414 LALBH	 AJY432 LALBH	 AJY450 LALBH	 AJY468 LALBH	 AJY486 LALBH
	Energy Efficiency Set Model				 AJY144 LALBHH	 AJY162 LALBHH	 AJY180 LALBHH		 AJY216 LALBHH	 AJY234 LALBHH	 AJY252 LALBHH	 AJY270 LALBHH	 AJY288 LALBHH	 AJY306 LALBHH	 AJY324 LALBHH	 AJY342 LALBHH	 AJY360 LALBHH	 AJY378 LALBHH	 AJY396 LALBHH	 AJY414 LALBHH				

AIRSTAGE J-IVL

for Small Office

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

AIRSTAGE V-III

for Large Office

Smart and cutting edge design. Extensive line-up from 10 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 100%

Air Handling Units Overview

AHU is the range of Air Handling Units for civil and industrial buildings for thermo-ventilation and air conditioning purposes, designed to be connected with AIRSTAGE™ Series Outdoor units.
Units are available in different models and several additional modular sections to meet all installation needs, with air flow ranges varying from 4,300 to 18,100m³/h and covering a cooling capacity from 25 to 96kW.

AHU is made of extruded aluminium profiles and nylon angle bars. The "sandwich-type" double-skin panels (50 mm thick) with galvanised sheets, externally pre-painted, and thermal insulation in high density polyurethane foam are fastened on the units by means of an aluminium snap-in locking system.

AHU fan section is equipped with EC Inverter Plug-Fans and is provided with Automatic Regulation Control Systems for Constant Air Flow and Constant Available Static Pressure. An electronic device with pressure sensors on the system and control sensors on EC Plug-Fans adjust the flow rate and the available static pressure to keep the air flow constant.

5 configurations are Available

Configuration A
In line with Front Damper
For fresh air operation up to 100% external air

Configuration B
In line with Top Inlet Damper
For fresh air operation up to 100% external air

Configuration C
In line with Inlet Mixing Box
For fresh air operation up to 20% external air

Configuration D
Double Deck with Cross-Flow Heat Exchanger

Configuration E
Double Deck with Heat Wheel

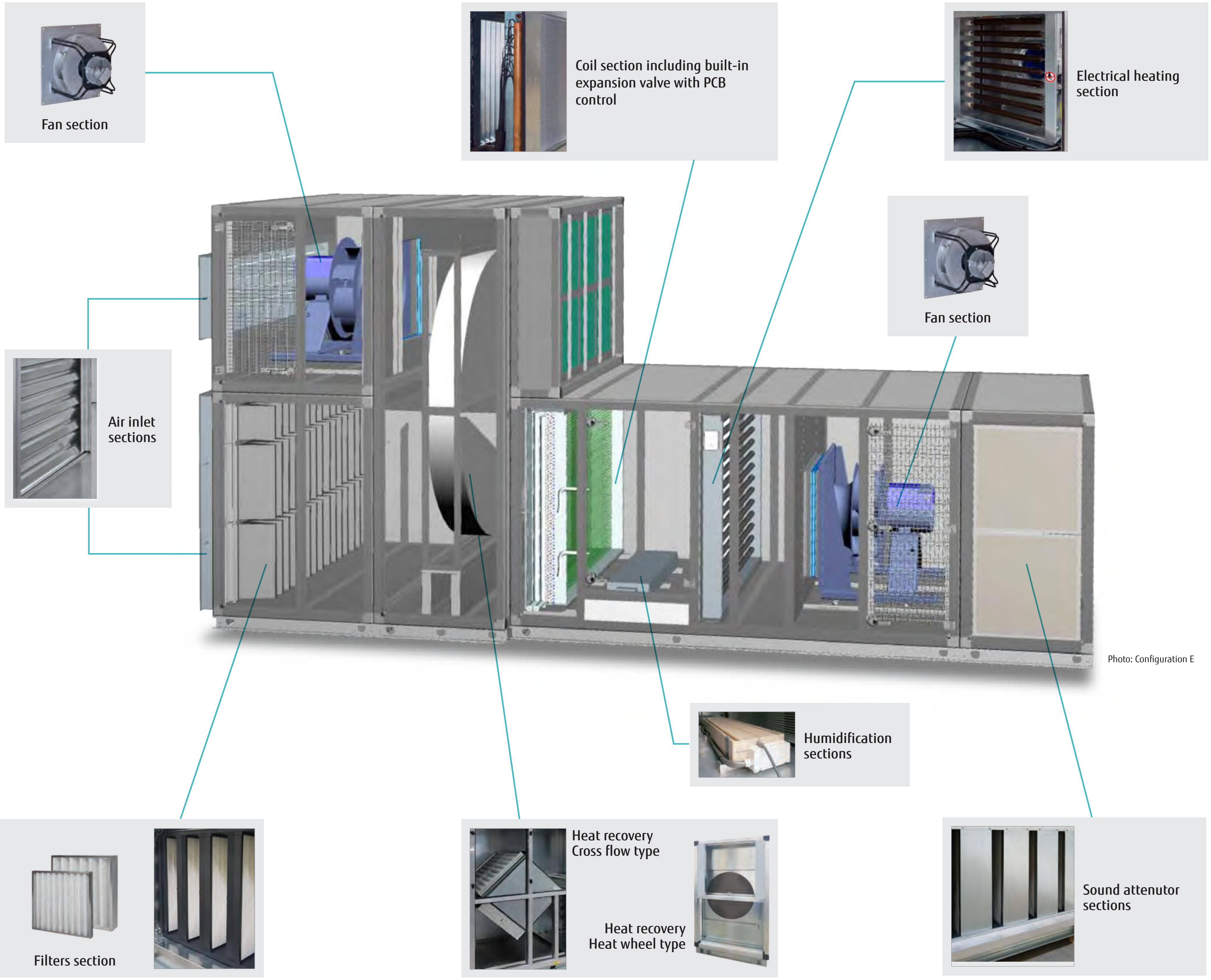


Photo: Configuration E

Feature

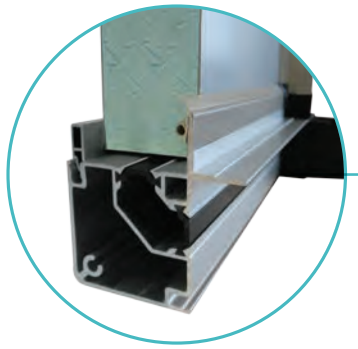


Photo: Configuration C

Structure

Section of extruded profile 62 × 62 mm (SNAP-IN system)

- The Air Handling Units are manufactured with bearing framework and sandwich paneling.
- The frame is made of extruded anticorodal aluminium alloy profiles of AlMgSi 0,5- UNI 9006/1 type.

Mechanical characteristics of extruded aluminium alloy

Denomination	Specific weight (kg/dm^3)	Unitary load of traction break R (kg/mm^2)	Yielding load S (0,2) (kg/mm^2)	Stretch (%)	Brinell hardness (kg/mm^2)
ANTICORODAL 050 UNI 9006/1 EX UNI 3569 (6060) ISO = Al Mg Si 0.5	2,70	20 ÷ 23	16 ÷ 20	12 ÷ 15	60 ÷ 70

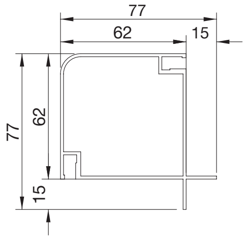
Profile

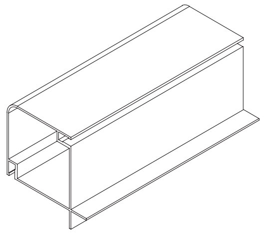
- The exclusive bearing structure made by Fujitsu General, having actual dimension of 62 x 62 mm, uses the lock panel system in aluminium (SNAP-IN system). This system permits to reach paneling tightnesses beyond 2500 Pa (10 in WG), because of the homogeneity of the pressure over the paneling perimeter, not achievable with the traditional system (selfdrilling screw fastening). This profile doesn't require the aid of internal and external screws, giving therefore a solider and aesthetically more pleasant appearance.
- Because of the dimensions of the profile, the used panel has actual dimensions of 50 mm.
- The profile hasn't got external sharp edges, as foreseen by the safety and accident-prevention rules in force.
- Air Handling Units are certified for the highest performance standards.

ErP LOT6 - 2018

- The EUROVENT certification on Fujitsu General units proves the reliability and correctness of declared performance data and features.
- Fujitsu General units and all internal components are compliant to ErP EcoDesign 2018 LOT6 Regulation.
- The compliance of Fujitsu General units to UNI EN 1886 European Regulation about structure thermal and mechanical performance is also certified by Eurovent.

(Unit : mm)





Panelling

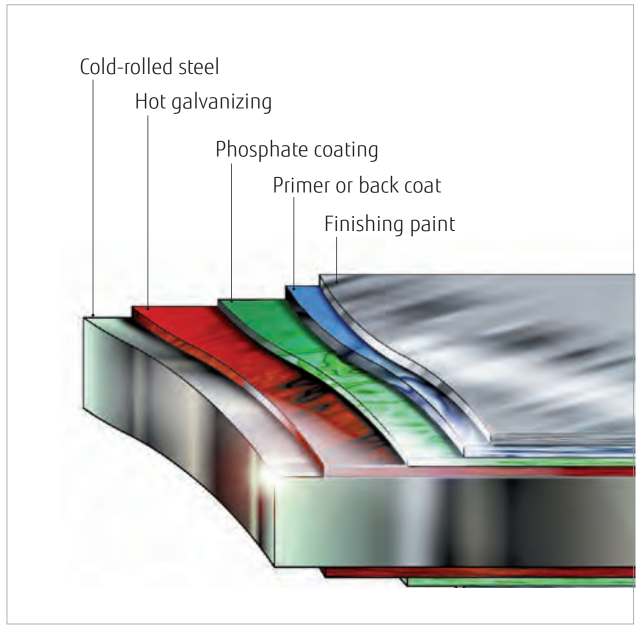
The panelling is double skin sandwich type made of galvanized sheet, with polyurethane foam insulation of minimum density 45 kg/m3, actual thickness: -50 mm

Panels are made as follows:

Inner skin: Hot dipped galvanized sheet (galvanization not less than 140 g/m^2), 5/10 mm thick.

Insulation: Rigid polyurethane foam minimum density 45 kg/m^3, thermal conductivity 0,018 ÷ 0,024 w/m^2 °c.

Outer skin: Hot dipped pre-painted galvanized sheet (galvanization not less than 140 g/m^2), 6/10 mm thick.



PRE-PAINTED GALVANIZED STEEL SHEET

Steel Sheet Features

Hot dipped galvanized steel sheet type Fe P02 GZ 140 UNI En 10142 with galvanization not less than 140 g/m^2. The thickness is 6/10 mm.

Pre-painted steel sheet 6/10 mm thick with base support made of hot dipped galvanized steel (galvanization not less than 140 g/m^2) EURONORM 142-79 and coating, colour white-grey for a special resistance to weathering. The protective system consists of a dry film of 25 μm on the exposed skin and of a dry film of 5 μm on the non-exposed skin.

Hardness of film: F on the Koh - i - Noor's scale.

Other chemical-physical characteristics:

- Resistance beyond 250 h in salty mist (ECCA T8)
- Resistance beyond 1000 h in high humidity conditions (ASTM D 714)
- Film resistance to the cleaving and adhesion after bending (ECCA T7).

A self-adhesive PVC film is laid on the steel sheet exposed surface in order to avoid damages during the manufacturing procedures and transport.

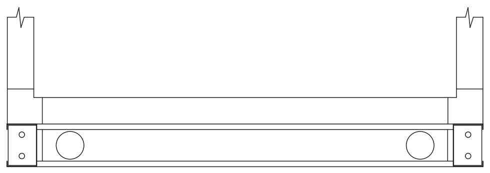
Baseframe

The bearing baseframe is made of galvanized steel with pressure bent, bolted or welded profile, according to the configuration of the unit.

It is arranged for the sections lifting and suitable for water piping passage and drain.

Perimeter baseframes heights and profiles are dimensioned as follows: H = 100 mm with bolted C profile for all units

The baseframes of all the above solutions are made of galvanized steel sheet with minimum thickness 2.0 mm.



SECTION VIEW.
The baseframe is flush with the panelling

Covering Roof (TT - Accessory)

- •All units that must be positioned outside or generally speaking are exposed to the weather may be equipped with a hot galvanized steel sheet roof (galvanization not less than 140 g/m2) as accessory element.
- •The roof overhang with regard to the unit outer dimensions is of about 100 mm.
- •All roof corners are equipped with accident prevention corners protections.

Filtration

Plate Filters COARSE 55%

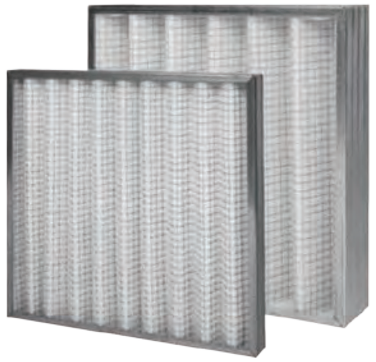


Plate filters filter the air at a low and medium efficiency.

- Plate filters are commonly used as prefilters in order to keep a longer efficiency of filters installed downstream.
- Plate filters are installed on guides fastened inside the unit. In this case the air by-pass is minimum.

Plate filters are highly used because of the following features

- Easy removal
- Easy availability on spare parts market
- Regenerability (they can be washed with warm water and soap or common domestic detergents).

Plate filters are made of

- Galvanized steel sheet frame 48 mm th.
- Support containing net made of galvanized electrowelded wire
- Filtering stuff made of synthetic fiber with filtration efficiency COARSE 55%.

Filtration

Bag Filters ePM1 50%

N.B. ePM1 50% bag filters are mandatory
for ECODESIGN ErP 2016 compliance

Bag filters have the characteristic of giving a wide filtering area thanks to their bag shape and therefore they highly reduce the crossing air speed.

The bags are installed on galvanized slides for side extraction. This filtering section includes the access door.

Soft bag filter features

- Efficiency, ePM1 50%
- Depth 287 mm
- Fiberglass filtering stuff
- Galvanized steel sheet frame
- 80% of the material is recyclable
- Limit relative humidity 100%.

Thermal Exchange Sections

DX Coil

The section consists of

- DX coil with copper tubes and aluminium fins, specifically designed to guarantee an high thermal exchange and an excellent ratio between sensible and latent heat;
- One distributor and one electronic expansion valve for each circuit connected to its control PCB, which is located in close proximity to avoid every possible interference, immunity and electromagnetic disturbance problems;
- Temperature probes installed at the front, at the rear and in the middle of the coil provide the data to the control PCB, which consequently determines the opening of the electronic expansion valve, depending on the work point and the set point;

On multi-module units the cooling circuits are interlaced to guarantee a full exploitation of the exchange surface and air treated uniformity also at partial loads. The section includes the PCB control.

Thermal Exchange Sections

Electrical Heating

Electrical heating section is used for the execution of heating and post-heating treatment

They are manufactured as follows

- galvanized steel sheet flanged containing frame
- finned steel tubular heaters on base insulators
- safety fix thermostat with manual reset
- electrical heating is foreseen for 3-Stage 400V/3P/50 up to 36 kW capacity.

Fan Section

EC Inverter Plug-Fan

The fan section is equipped with EC Inverter Plug-Fan.

- The EC Inverter Plug-Fans are managed by an electronic control adjusting fans rotational speed to adapt air flow and static pressure to the system capacity. They supply a variable air flow according to the requested thermal load, providing important benefits in terms of energy consumption and low noise operation especially when the unit is operating at partial load.
- The EC Inverter Plug-Fans can be set to different working conditions, according to the unit needs, directly on site through the control panel installed on the Electrical Board section.
- Compared to traditional Plug-Fans, thanks to EC Inverter technology the overall efficiency and acoustic behaviour of the fans has been significantly improved. The blade geometry with a diagonal trailing edge has positive effects on the aerodynamic performance and on the running smoothness of the fans. The same is true for the implemented nozzle contour.
- The overall dimension of the section can be kept at minimum thanks to the fan dimension: the EC motor is integrated directly in the impeller. A belt drive between the motor and the fan, which is commonly used otherwise, is not necessary. This reduces the required installation volume and the associated installation effort.
- The EC Plug-Fans significantly exceed the ErP 2015 norm and the requirements of energy efficiency class A+ stated in German manufacturer's association RLT Directive 01, "General Requirements for Ventilation and Air-conditioning Devices".
- AHU fan section equipped with EC Inverter Plug-Fans is provided with the Automatic Regulation Control Systems for Constant Air Flow and Constant Available Static Pressure. An electronic device with pressure sensors on the system and control sensors on EC Plug-Fans adjust the flow rate and the available static pressure to keep the air flow constant.

Humidifier

Electrode humidifiers specifically designed for installation inside air handling units.

- The humidifier is constituted by two parts connected together electrically: the hydraulic part and the control unit based on a microprocessor board. The hydraulic part is completely inserted into the AHU, lying on the condensate drain tank immediately downstream of the cooling coil.
- The control is fully integrated in the microprocessor installed aboard the AHU.
- The hydraulic boiler is made up of plastic polypropylene "channel" having a section of 33 cm x 16 cm height, and having a length proportional to the width of the AHU. Inside the boiler are arranged longitudinally the stainless steel electrodes, connected to the power supply phases and easily removable The lid is made of plastic sections with slope, so as to allow any condensation that falls by gravity into the boiler in order to avoid power losses.
- Between the plastic sections is obtained a narrow longitudinal slot which allows the output of the steam produced, that meets the air for the whole length of the AHU section.
- This solution prevents the formation of condensate in the pipes and also prevents any increase in steam pressure in the boiler due to blockages in the pipes conveying steam.

On one side of the kettle (the easiest to access once installed) you have the body of hydraulic management of the system

- Maximum water level sensor
- Draining bloc the draining bloc has been specially designed to empty the tank from water and limestone pieces without having to block and having to be able to work without pressure.

A electronic rotation sensor, rigidly grafted on the pivot motor, communicating with the microprocessor which manage the correct operation and shown in the display any faults that may appear.

Heat Recovery Section

Cross Flow Heat Recovery

The recovery unit efficiency has values up to 85%.

- The fixed plates static recovery units are air to air type, without moving parts, therefore working in a reliable and safe way. The air movement is in a crossed flow with heat transfer directly from higher temperature flow to the lower temperature one. The recovery unit efficiency has values up to 85%.
- This type of heat exchanger is made of pressed aluminium sheets, housed in a variable spacing depending on the use type.
- Sealings are made along the edges in order to prevent contamination on renewal air from polluting agents contained in exhaust air.

The normal supply foresees

- Recovery units with aluminium fins
- Cell prefilters COARSE 55% type (85% eff.) on fresh air side
- Galvanized steel sheet drain pan to collect possible condensation.

Heat Recovery Section

Heat Wheel Recovery Units

The working principle is the following

- The exhaust air crosses half circular rotor sector and gives part of its heat to the metallic mass. This, slowly wheeling, is invested from cold renewal air crossing in counterflow the other half of the exchanger, taking the heat given from the exhaust air. When rotor is hygroscopic type, also humidity contained into the exhaust air will be partially transferred to the renewal air.
- The words "warm air" and "cold air" of the above description are valid for winter working cycle; in summer cycle the functions of transfer and absorption of heat and humidity are evidently inverted.

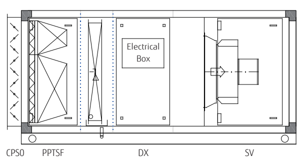
Usually these type of recovery units are made as follows

- aluminium rotor
- galvanized steel sheet frame
- constant speed electric gearmotor

Dimensions

Configurations A

1



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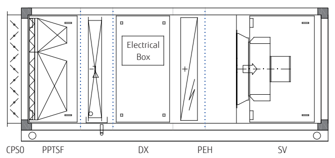

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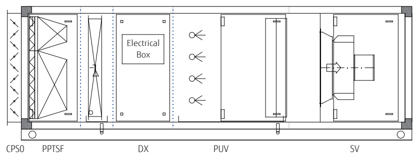

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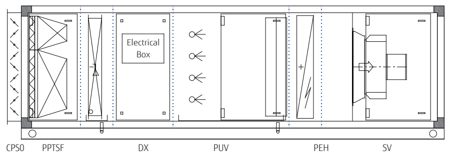
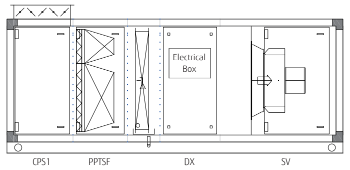


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYA025GWAA	1	1,064	1,154	2,619	611	3,529
AHYA025GWAB	2	1,064	1,154	3,109	679	4,019
AHYA025GWAC	3	1,064	1,154	2,619	629	3,529
AHYA025GWAD	4	1,064	1,154	3,109	697	4,019
AHYA040GWAA	1	1,199	1,354	2,749	844	3,659
AHYA040GWAB	2	1,199	1,354	3,319	931	4,229
AHYA040GWAC	3	1,199	1,354	2,749	865	3,659
AHYA040GWAD	4	1,199	1,354	3,319	952	4,229
AHYA048GWAA	1	1,309	1,574	2,749	921	3,659
AHYA048GWAB	2	1,309	1,574	3,319	1,023	4,229
AHYA048GWAC	3	1,309	1,574	2,749	944	3,659
AHYA048GWAD	4	1,309	1,574	3,319	1,046	4,229
AHYA080GWAA	1	1,544	2,074	3,189	1,542	4,099
AHYA080GWAB	2	1,544	2,074	3,839	1,701	4,749
AHYA080GWAC	3	1,544	2,074	3,189	1,570	4,099
AHYA080GWAD	4	1,544	2,074	3,839	1,729	4,749
AHYA096GWAA	1	1,789	2,250	3,189	1,691	4,099
AHYA096GWAB	2	1,789	2,250	3,839	1,869	4,749
AHYA096GWAC	3	1,789	2,250	3,189	1,724	4,099
AHYA096GWAD	4	1,789	2,250	3,839	1,899	4,749

Configurations B

1



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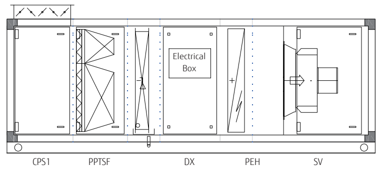

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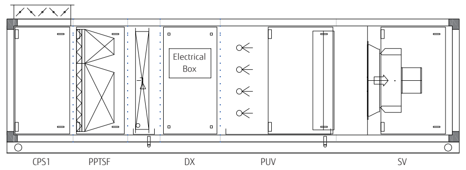

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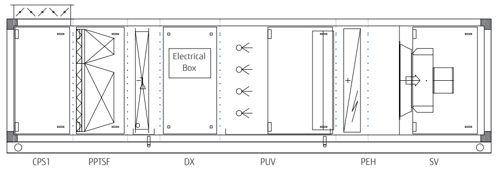
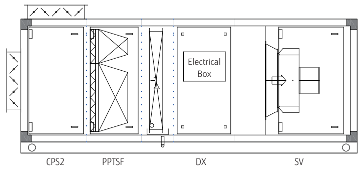


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYB025GWAA	1	1,179	1,154	2,854	628	3,764
AHYB025GWAB	2	1,179	1,154	3,344	696	4,254
AHYB025GWAC	3	1,179	1,154	2,854	646	3,764
AHYB025GWAD	4	1,179	1,154	3,344	714	4,254
AHYB040GWAA	1	1,314	1,354	3,084	873	3,994
AHYB040GWAB	2	1,314	1,354	3,654	960	4,564
AHYB040GWAC	3	1,314	1,354	3,084	894	3,994
AHYB040GWAD	4	1,314	1,354	3,654	981	4,564
AHYB048GWAA	1	1,424	1,574	3,084	953	3,994
AHYB048GWAB	2	1,424	1,574	3,654	1,055	4,564
AHYB048GWAC	3	1,424	1,574	3,084	976	3,994
AHYB048GWAD	4	1,424	1,574	3,654	1,078	4,564
AHYB080GWAA	1	1,659	2,074	3,624	1,591	4,534
AHYB080GWAB	2	1,659	2,074	4,274	1,749	5,184
AHYB080GWAC	3	1,659	2,074	3,624	1,619	4,534
AHYB080GWAD	4	1,659	2,074	4,274	1,777	5,184
AHYB096GWAA	1	1,904	2,250	3,724	1,760	4,634
AHYB096GWAB	2	1,904	2,250	4,374	1,936	5,284
AHYB096GWAC	3	1,904	2,250	3,724	1,790	4,634
AHYB096GWAD	4	1,904	2,250	4,374	1,966	5,284

Configurations C

1



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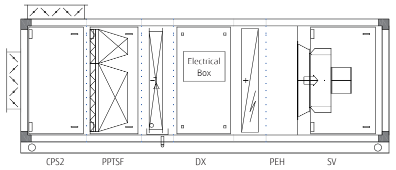

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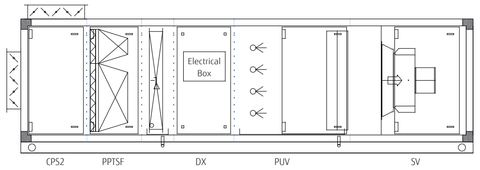

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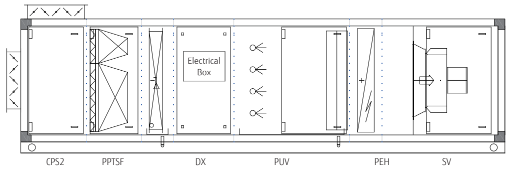
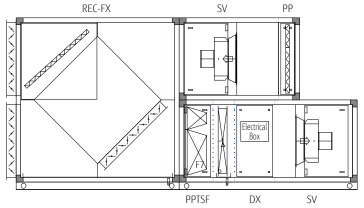


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYC025GWAA	1	1,179	1,154	2,969	650	3,879
AHYC025GWAB	2	1,179	1,154	3,459	718	4,369
AHYC025GWAC	3	1,179	1,154	2,969	668	3,879
AHYC025GWAD	4	1,179	1,154	3,459	736	4,369
AHYC040GWAA	1	1,314	1,354	3,199	899	4,109
AHYC040GWAB	2	1,314	1,354	3,769	986	4,679
AHYC040GWAC	3	1,314	1,354	3,199	920	4,109
AHYC040GWAD	4	1,314	1,354	3,769	1,007	4,679
AHYC048GWAA	1	1,424	1,574	3,199	980	4,109
AHYC048GWAB	2	1,424	1,574	3,769	1,082	4,679
AHYC048GWAC	3	1,424	1,574	3,199	1,003	4,109
AHYC048GWAD	4	1,424	1,574	3,769	1,105	4,679
AHYC080GWAA	1	1,659	2,074	3,739	1,624	4,649
AHYC080GWAB	2	1,659	2,074	4,389	1,782	5,299
AHYC080GWAC	3	1,659	2,074	3,739	1,652	4,649
AHYC080GWAD	4	1,659	2,074	4,389	1,810	5,299
AHYC096GWAA	1	1,904	2,250	3,839	1,799	4,749
AHYC096GWAB	2	1,904	2,250	4,489	1,975	5,399
AHYC096GWAC	3	1,904	2,250	3,839	1,829	4,749
AHYC096GWAD	4	1,904	2,250	4,489	2,005	5,399

Configurations D

1



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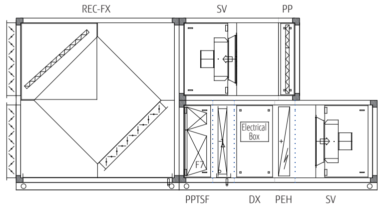

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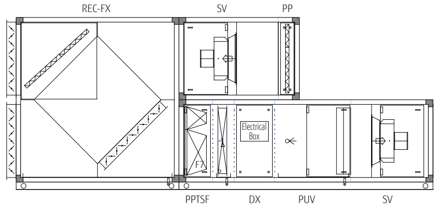

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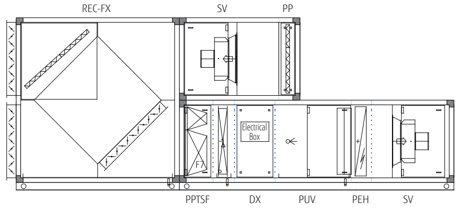
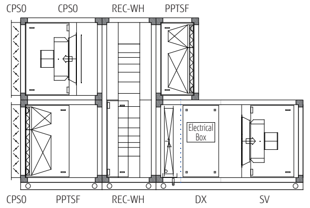


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYD025GWAA	1	2028/1064	1424/1154	4,311	1,259	5,221
AHYD025GWAB	2	2028/1064	1424/1154	4,801	1,327	5,711
AHYD025GWAC	3	2028/1064	1424/1154	4,311	1,277	5,221
AHYD025GWAD	4	2028/1064	1424/1154	4,801	1,345	5,711
AHYD040GWAA	1	2298/1199	1574/1354	4,871	1,750	5,781
AHYD040GWAB	2	2298/1199	1574/1354	5,441	1,837	6,351
AHYD040GWAC	3	2298/1199	1574/1354	4,871	1,771	5,781
AHYD040GWAD	4	2298/1199	1574/1354	5,441	1,858	6,351
AHYD048GWAA	1	2518/1309	1824/1574	4,871	1,978	5,781
AHYD048GWAB	2	2518/1309	1824/1574	5,348	2,080	6,258
AHYD048GWAC	3	2518/1309	1824/1574	4,778	2,001	5,688
AHYD048GWAD	4	2518/1309	1824/1574	5,348	2,103	6,258
AHYD080GWAA	1	2988/1544	2,074	6,161	3,361	7,071
AHYD080GWAB	2	2988/1544	2,074	6,811	3,520	7,721
AHYD080GWAC	3	2988/1544	2,074	6,161	3,389	7,071
AHYD080GWAD	4	2988/1544	2,074	6,811	3,548	7,721
AHYD096GWAA	1	3478/1789	2,250	6,451	3,849	7,361
AHYD096GWAB	2	3478/1789	2,250	7,008	4,025	7,918
AHYD096GWAC	3	3478/1789	2,250	6,451	3,879	7,268
AHYD096GWAD	4	3478/1789	2,250	7,008	4,055	7,918

Configurations E

1



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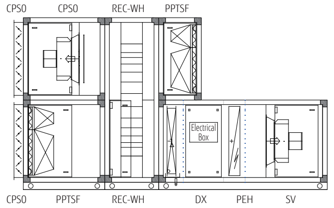

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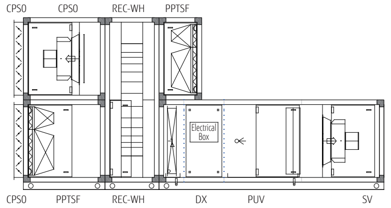

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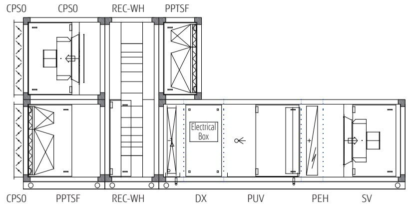
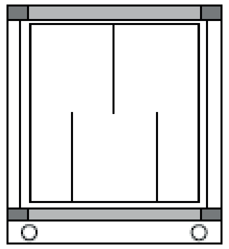
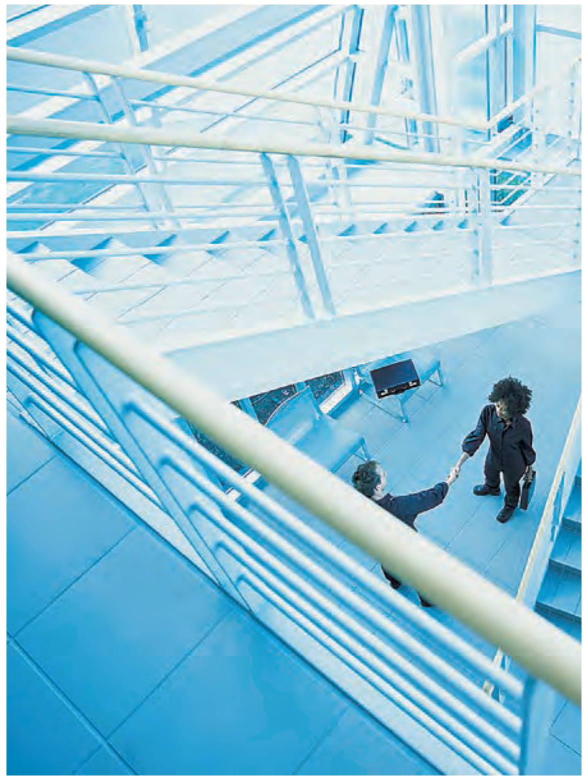


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYE025GWAA	1	2028/1064	1429/1154	3,813	1,150	4,723
AHYE025GWAB	2	2028/1064	1429/1154	4,303	1,226	5,213
AHYE025GWAC	3	2028/1064	1429/1154	3,813	1,168	4,723
AHYE025GWAD	4	2028/1064	1429/1154	4,303	1,244	5,213
AHYE040GWAA	1	2298/1199	1729/1354	4,073	1,571	4,983
AHYE040GWAB	2	2298/1199	1729/1354	4,643	1,658	5,553
AHYE040GWAC	3	2298/1199	1729/1354	4,073	1,592	4,983
AHYE040GWAD	4	2298/1199	1729/1354	4,643	1,679	5,553
AHYE048GWAA	1	2518/1309	1829/1574	4,073	1,696	4,983
AHYE048GWAB	2	2518/1309	1829/1574	4,643	1,798	5,553
AHYE048GWAC	3	2518/1309	1829/1574	4,073	1,719	4,983
AHYE048GWAD	4	2518/1309	1829/1574	4,643	1,821	5,553
AHYE080GWAA	1	2988/1544	2374/2074	4,953	2,753	5,863
AHYE080GWAB	2	2988/1544	2374/2074	5,603	2,912	6,513
AHYE080GWAC	3	2988/1544	2374/2074	4,953	2,781	5,863
AHYE080GWAD	4	2988/1544	2374/2074	5,603	2,940	6,513
AHYE096GWAA	1	3478/1789	2582/2250	4,953	3,035	5,863
AHYE096GWAB	2	3478/1789	2582/2250	5,603	3,211	6,513
AHYE096GWAC	3	3478/1789	2582/2250	4,953	3,065	5,863
AHYE096GWAD	4	3478/1789	2582/2250	5,603	3,241	6,513

Silencer PI



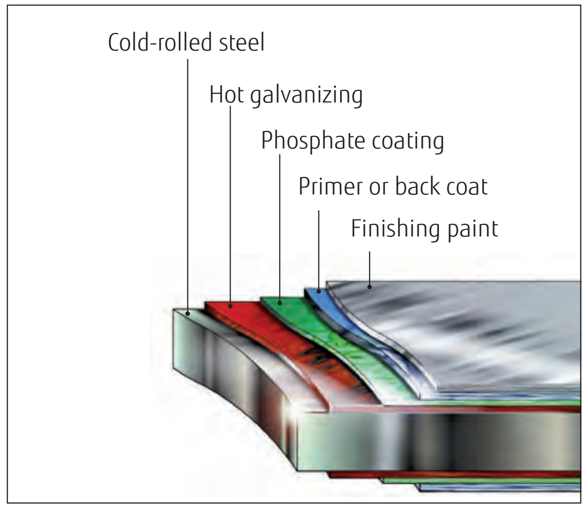
Connectable AHU model name	H (mm)	L (mm)	W (mm)	Kg
AHY* 025GWA*	1064	910	1154	209
AHY* 040GWA*	1199	910	1354	233
AHY* 048GWA*	1309	910	1574	274
AHY* 080GWA*	1544	910	2074	280
AHY* 096GWA*	1789	910	2250	444



Loose Accessories

Galvanized metal sheet roof

All units that must be positioned outside or generally speaking are exposed to the weather may be equipped with a hot-galvanized metal sheet roof (galvanization not less than 140 g/m^2) as accessory element.
The roof overhang with regard to the unit outer dimensions is of about 100 mm. All roof corners are equipped with accident prevention protections.



Total Pressure Drops Calculation

AHU units, being controlled by EC Inverter Plug-Fans, can satisfy a high range of required air flow rate and static pressure.

The EC Inverter Plug-Fans can be set to different working conditions, according to the unit needs, directly on site through the control panel installed on the Electrical Board section.

Procedure for selection

- Select the AHU model most suitable according the air volume.
- Check the air flow static pressure operating point on the curve of the chosen fan by crossing the required air flow rate with the value of the overall static pressure.

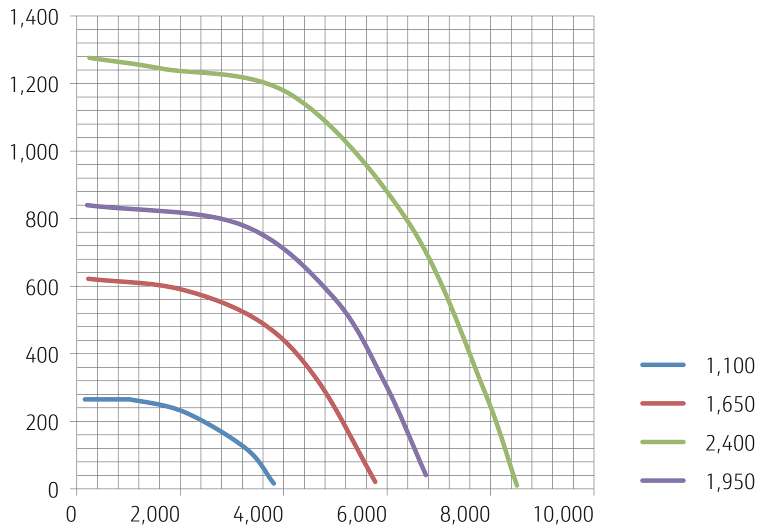
To calculate the total static pressure value refer to the Components Pressure Drop table and add the net static pressure required for the plant.

Components Pressure Drop table

ODU	AHU SIZE	MIN NOM MAX	Airflow	Inlet damper (Config. A-E)	Inlet damper (Config. B-C)	G4 filters - supply	F7 filters	DX coil	Silencer	PHE + dampers + G4 filters-supply	PHE + damper -exhaust	G4 filters - exhaust (Config. D)	Heat wheel - supply	G4 filters - supply (Config. E)	F7 filters (Config. E)	Heat wheel - exhaust	G4 filters - exhaust (Config. E)	Exhaust damper (Config. E)	Humidifier	Electrical heater
			m³/h	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa
10HP	025	MIN	4,300	1	12	91	156	55	26	206	120	91	162	93	144	159	84	7	-	-
		NOM	4,500	1	13	98	158	59	28	210	122	95	167	93	146	165	95	8	-	-
		MAX	5,000	2	16	99	164	71	36	235	147	96	187	95	150	185	96	10	-	-
14HP	040	MIN	5,000	1	4	91	138	37	4	154	70	91	116	89	135	114	91	4	-	-
		NOM	7,200	2	13	87	149	68	10	240	145	87	172	93	144	169	94	8	-	-
		MAX	8,000	2	16	96	153	82	12	243	165	96	193	94	147	190	96	9	-	-
18HP	048	MIN	8,100	1	12	96	153	50	10	225	139	92	167	94	147	165	92	9	-	-
		NOM	8,600	1	13	97	156	55	11	241	155	93	178	95	149	176	93	10	-	-
		MAX	9,100	2	15	98	159	60	13	257	171	93	189	95	152	187	93	11	-	-
2X 14HP	080	MIN	11,000	1	8	91	140	30	9	148	62	90	121	90	137	119	90	6	-	-
		NOM	14,500	2	14	94	148	47	16	188	101	93	163	93	143	161	93	10	-	-
		MAX	16,100	2	17	96	153	56	19	209	122	94	183	94	147	180	94	13	-	-
2X 18HP	096	MIN	16,000	1	10	96	152	37	16	157	74	91	146	92	142	144	91	10	-	-
		NOM	17,300	1	11	97	156	42	19	168	86	92	159	93	145	157	92	11	-	-
		MAX	18,100	1	13	98	158	46	21	175	93	92	167	93	146	165	92	13	-	-

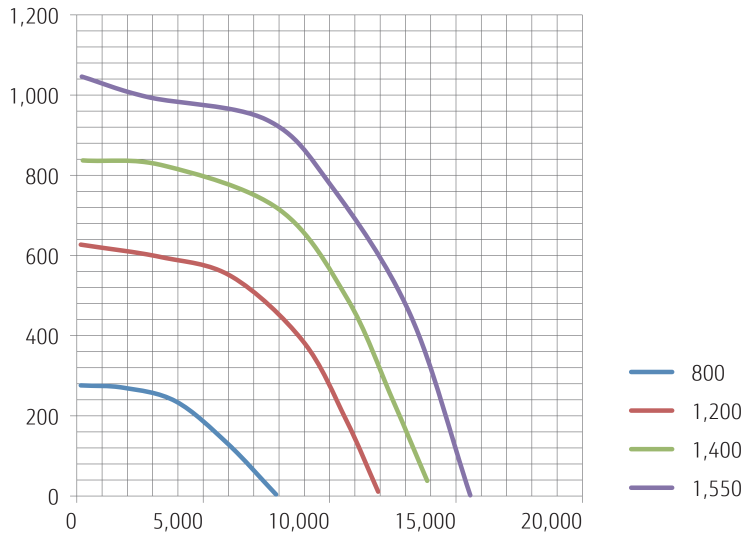
Fan Characteristic Curves

Fan type 400 mm



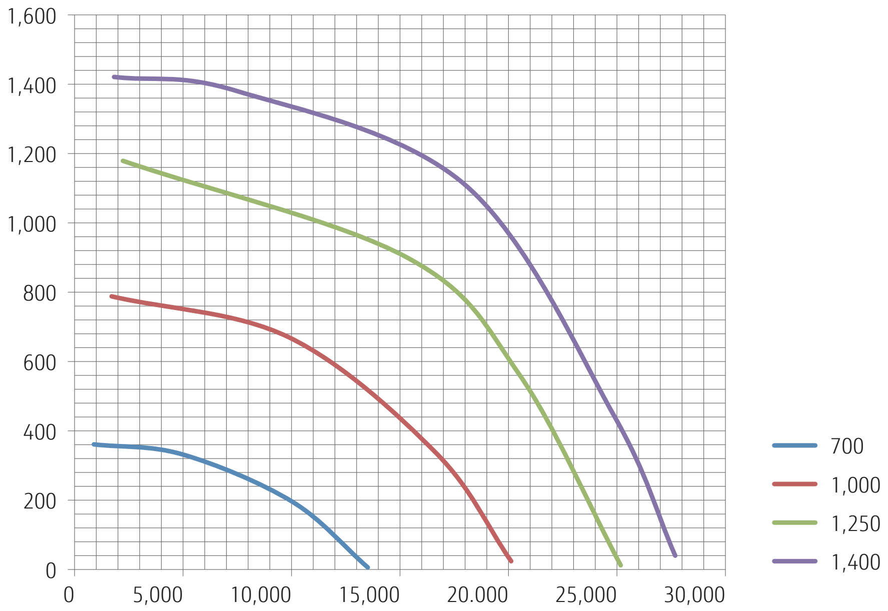
fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
400 mm	156	265	124	1100	63	71
400 mm	334	265	134	1100	63	70
400 mm	1002	265	187	1100	62	69
400 mm	1025	265	181	1100	62	69
400 mm	2072	228	234	1100	58	66
400 mm	3275	119	224	1100	62	69
400 mm	3809	16	173	1100	69	74
400 mm	223	622	352	1650	75	82
400 mm	2005	591	642	1650	72	79
400 mm	3564	493	767	1650	68	75
400 mm	4656	321	708	1650	71	77
400 mm	5770	21	487	1650	79	83
400 mm	200	840	509	1950	79	86
400 mm	3163	783	1154	1950	74	81
400 mm	4946	570	1223	1950	74	80
400 mm	5948	316	1027	1950	78	83
400 mm	6750	41	773	1950	83	87
400 mm	245	1276	921	2400	85	92
400 mm	1649	1244	1497	2400	86	92
400 mm	4163	1165	2223	2400	81	87
400 mm	6438	783	2237	2400	81	87
400 mm	7864	296	1738	2400	86	91
400 mm	8510	10	1389	2392	89	93

Fan type 560 mm



fan type	m^3/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
560 mm	158	276	209	800	65	72
560 mm	1861	270	345	800	65	71
560 mm	3921	236	438	800	61	67
560 mm	5980	130	452	800	62	67
560 mm	7881	4	313	800	69	74
560 mm	158	627	591	1200	77	83
560 mm	3327	596	1164	1200	75	82
560 mm	6139	547	1471	1200	71	77
560 mm	8950	386	1473	1200	72	78
560 mm	10653	190	1212	1200	76	82
560 mm	11921	11	936	1200	80	85
560 mm	238	837	901	1400	80	87
560 mm	3446	824	1743	1400	80	87
560 mm	8000	715	2403	1400	75	81
560 mm	10693	493	2260	1400	76	82
560 mm	12475	243	1859	1400	80	86
560 mm	13861	38	1521	1400	85	89
560 mm	198	1046	1210	1550	84	90
560 mm	2812	995	2086	1550	84	91
560 mm	7485	939	3131	1550	78	84
560 mm	10059	774	3249	1550	77	84
560 mm	13188	453	2901	1550	82	88
560 mm	15564	2	1948	1550	91	94

Fan type 710 mm



fan type	m^3/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
710 mm	891	361	744	700	71	77
710 mm	4975	332	1290	700	69	74
710 mm	10025	196	1427	700	69	75
710 mm	13515	6	880	700	77	83
710 mm	1708	788	1693	1000	81	88
710 mm	9876	670	3179	1000	77	83
710 mm	16634	338	3084	1000	80	86
710 mm	20124	24	2177	1000	87	93
710 mm	2228	1179	3015	1250	87	94
710 mm	15297	901	6054	1250	83	89
710 mm	20495	563	5794	1250	86	92
710 mm	25173	12	3857	1250	92	98
710 mm	1821	1421	3716	1400	89	96
710 mm	7500	1380	5851	1400	89	95
710 mm	17996	1110	8301	1400	86	92
710 mm	24855	445	6916	1400	91	98
710 mm	27685	40	5271	1400	95	101

Specifications

		Configuration A-B-C				
Model FG		**025**	**040**	**048**	**080**	**096**
Model name		AHYA025GWA* AHYB025GWA* AHYC025GWA*	AHYA040GWA* AHYB040GWA* AHYC040GWA*	AHYA048GWA* AHYB048GWA* AHYC048GWA*	AHYA080GWA* AHYB080GWA* AHYC080GWA*	AHYA096GWA* AHYB096GWA* AHYC096GWA*
Casing						
Material		Outer skin in 0.6 mm pre-painted galvanized sheet; inner skin in 0.6 mm galvanized sheet				
Insulation		PU foam, 50 mm thickness, 45 kg/m³				
Performances						
Cooling capacity	kW	25	40	48	78	96
Heating capacity	kW	31.5	45	50	81.5	100
Available static pressure	Pa	200	200	200	200	200
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air flow						
Max	m³/h	5000	8000	9100	16100	18100
Rated	m³/h	4500	7200	8600	14500	17300
Min	m³/h	4300	5000	8100	11000	16000
Cross flow heat recovery						
Efficiency (*)	%	—	—	—	—	—
Eurovent Energy Class (**)						
Rated		A+	A	A	A	A
DX Coil						
Rows	n°	4				
Coil type		25x22 - 3/8"				
Coil duty		Cooling - Heating				
Fluid		R410A				
Pipes material		Copper				
Fins material		Aluminium				
Electrical heating						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
Humidifier						
Fix steam capacity	kg/h	15	25	30	45	60
Fan						
Type		EC Plug Fan				
Motor data	mm	400	560	560	710	710
	kW	2.4	3.4	3.4	7.3	7.3
Thermal transmittance of the casing(TT) class		T3	T3	T3	T3	T3
Thermal bridging factor(TBF) class		TB3	TB3	TB3	TB3	TB3
Casing strength(CS) class		D2(M)	D2(M)	D2(M)	D2(M)	D2(M)
Casing air leakage(CAL) class@-400Pa		L2(M)	L2(M)	L2(M)	L2(M)	L2(M)
Casing air leakage(CAL) class@+700Pa		>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)
Filter bypass leakage (FBL) class		F9(M)	F9(M)	F9(M)	F9(M)	F9(M)

(*) at rated air flow
(**) configuration 1

		Configuration D					Configuration E				
Model FG		**025**	**040**	**048**	**080**	**096**	**025**	**040**	**048**	**080**	**096**
Model name		AHYD025GWA*	AHYD040GWA*	AHYD048GWA*	AHYD080GWA*	AHYD096GWA*	AHYE025GWA*	AHYE040GWA*	AHYE048GWA*	AHYE080GWA*	AHYE096GWA*
Casing											
Material		Outer skin in 0,6 mm pre-painted galvanized sheet; inner skin in 0,6 mm galvanized sheet					Outer skin in 0,6 mm pre-painted galvanized sheet; inner skin in 0,6 mm galvanized sheet				
Insulation		PU foam, 50 mm thickness, 45 kg/m³					PU foam, 50 mm thickness, 45 kg/m³				
Performances											
Cooling capacity	kW	25	40	48	78	96	25	40	48	78	96
Heating capacity	kW	31.5	45	50	81.5	100	31.5	45	50	81.5	100
Available static pressure	Pa	200	200	200	200	200	200	200	200	200	200
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air flow											
Max	m³/h	5000	8000	9100	16100	18100	5000	8000	9100	16100	18100
Rated	m³/h	4500	7200	8600	14500	17300	4500	7200	8600	14500	17300
Min	m³/h	4300	5000	8100	11000	16000	4300	5000	8100	11000	16000
Heat recovery											
Efficiency (*)	%	73.3	74.4	74.2	73.7	73.6	75.6	74.7	74.2	75.3	75.6
Eurovent Energy Class (**)											
Rated		A+	A+	A+	A+	A	A+	A+	A+	A	A
DX Coil											
Rows	n°	4					4				
Coil type		25x22 - 3/8"					25x22 - 3/8"				
Coil duty		Cooling - Heating					Cooling - Heating				
Fluid		R410A					R410A				
Pipes material		Copper					Copper				
Fins material		Aluminium					Aluminium				
Electrical heating											
Stages	n°	3					3				
Heating capacity	kW	9	15	18	30	36	9	15	18	30	36
Humidifier											
		15	25	30	45	60	15	25	30	45	60
Fan											
Type		EC Plug Fan					EC Plug Fan				
Motor data	mm										
	kW	2.4	3.4	3.4	7.3	7.3	2.4	3.4	3.4	7.3	7.3
Thermal transmittance of the casing(TT) class		T3	T3	T3	T3	T3	T3	T3	T3	T3	T3
Thermal bridging factor(TBF) class		TB3	TB3	TB3	TB3	TB3	TB3	TB3	TB3	TB3	TB3
Casing strength(CS) class		D2(M)	D2(M)	D2(M)	D2(M)	D2(M)	D2(M)	D2(M)	D2(M)	D2(M)	D2(M)
Casing air leakage(CAL) class@-400Pa		L2(M)	L2(M)	L2(M)	L2(M)	L2(M)	L2(M)	L2(M)	L2(M)	L2(M)	L2(M)
Casing air leakage(CAL) class@+700Pa		>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)
Filter bypass leakage (FBL) class		F9(M)	F9(M)	F9(M)	F9(M)	F9(M)	F9(M)	F9(M)	F9(M)	F9(M)	F9(M)

(*) at rated air flow
(**) configuration 1

Control System

AHU units include built-in electrical panel and expansion valve with PCB control. Set point is fixed via standard wired control.
The cooling load is determined by the air return temperature and set point on the wired control.

AHU Controller

UTY-TXUX

Features

- Easy to install. Control connects to AHU PLC.
- Able to install the control after building decoration.
- Mode lock function: user can lock the running mode of Air Handling Unit.

Easy Opration

The remote controller realized an intuitive operation feeling by touch panel operation.

Functions
- Schedule setting change
- Set temperature and humidity
- Ambient's name
- Alarms setting
- Event setting

Specifications

Model name		UTY-TXUX
Format	mm	120 x 86 x 25
Display		Display touch color 3.5" 320 x 240
Power supply		24 Vac - 24 Vac/dc
Analogue inputs		1 x Integrated NTC
Connectivity		RS485 - Modbus SL, USB Micro-B (debug and programming)
Operating temperature		0 – +50 °C

System Controller

UTY-APGXZ1 Software

Features

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1,600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

System Controller Lite

UTY-ALGXZ1 + UTY-PLGXX2 Software

Features

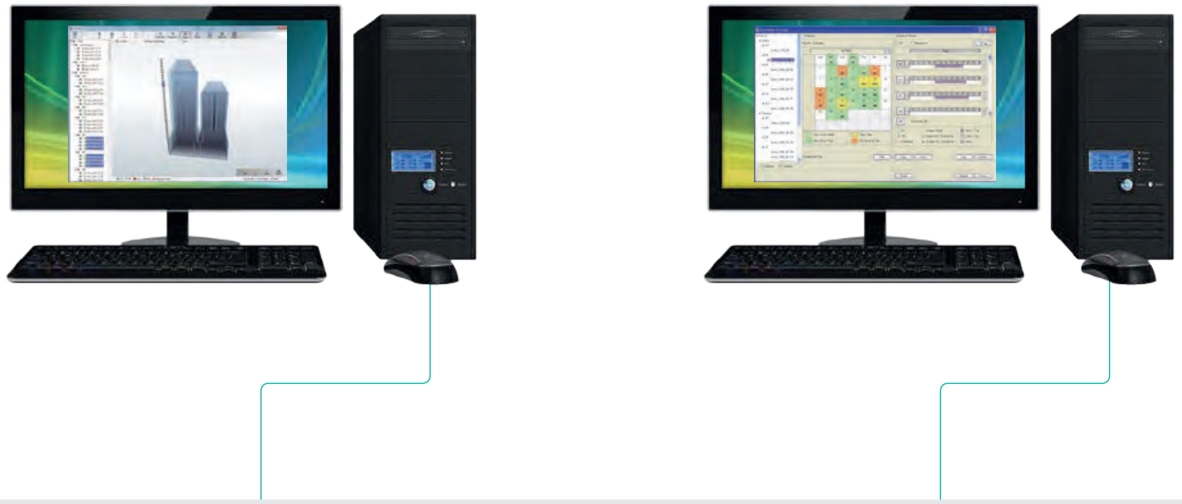
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings.

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units



It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioners.
This is useful in energy saving management over the whole building.

Functions Summary

Function	Type		System controller		System controller lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
System specification	Max. VRF networks supported		4	–	1	–	–	–	–
	Max. indoor unit / remote controller groups per VRF network		400	–	400	–	–	–	–
	Max. outdoor units per VRF network		100	–	100	–	–	–	–
	Max. indoor units / remote controller groups per System controller		1600	–	400	–	–	–	–
	Max. outdoor units per System controller		400	–	100	–	–	–	–
Site supervision	Multi site display		10	–	10	–	–	–	–
	Number of building / 1 site		20	–	–	–	–	–	–
	Number of floor per 1 site		200	–	–	–	–	–	–
	Number of floor per 1 building		50	–	–	–	–	–	–
	3D graphical layout view		●	–	–	–	–	–	–
	2D graphical layout view		●	–	–	–	–	–	–
	List display		●	–	●	–	–	–	–
	Tree display		●	–	●	–	–	–	–
	Group display		●	–	●	–	–	–	–
Error management	Error notification		●	–	●	–	–	–	–
	Audible alarm		●	–	●	–	–	–	–
	Error e-mail notification		●	–	●	–	–	–	–
History	Error history		●	–	●	–	–	–	–
	Operation history		●	–	●	–	–	–	–
	Control history		●	–	●	–	–	–	–
Operation control	Individual control	On/Off	●	–	●	–	–	–	–
		Operation mode*	●	–	●	–	–	–	–
		Room temperature	●	–	●	–	–	–	–
		Fan speed	●	–	●	–	–	–	–
		Air flow direction	●	–	●	–	–	–	–
		Economy mode	●	–	●	–	–	–	–
		Room temperature set point limitation	●	–	●	–	–	–	–
		Antifreeze	●	–	●	–	–	–	–
		Outdoor unit low noise setting	●	–	●	–	–	–	–
	Individual management	Remote control prohibition setting	●	–	●	–	–	–	–
		Temperature upper and lower limit setting	●	–	●	–	–	–	–
		Filter sign reset	●	–	●	–	–	–	–
	Other	Memory operation	●	–	●	–	–	–	–
		Pattern operation	●	–	●	–	–	–	–
Schedule	Annual Schedule		●	–	●	–	–	–	–
	Special day setting		●	–	●	–	–	–	–
	On / off per day		72	–	72	–	–	–	–
	On / off per week		504	–	504	–	–	–	–
	Day off		●	–	●	–	–	–	–
	Min. unit of timer setting (Minutes)		10	–	10	–	–	–	–
	Low noise mode Weekly schedule		●	–	●	–	–	–	–
Remote management	Web Operation		●	–	●	–	–	–	–
	Remote monitoring		●	–	–	●	–	–	–
	Remote operation control		●	–	–	●	–	–	–
	Remote function setting		●	–	–	●	–	–	–
Electricity charge apportionment	Apportionment charge/bill calculation		●	–	–	–	●	–	–
	Tenant (block) setting		●	–	–	–	●	–	–
	Common facilities apportionment setting		●	–	–	–	●	–	–
	Rated power consumption allotment setting		●	–	–	–	●	–	–
	Individual calculation at cooling and heating		–	●	–	–	●	–	–
	Electricity meter supported		–	●	–	–	●	–	–
Energy saving management	Indoor unit rotation		–	●	–	–	–	●	–
	Peak cut control		–	●	–	–	–	●	–
	Outdoor unit capacity save		–	●	–	–	–	●	–
	Record of energy saving operation		–	●	–	–	–	●	–
	Energy saving information		–	●	–	–	–	●	–
	Power consumption monitor		–	●	–	–	–	●	–
	Electricity meter supported			●		–	–	●	–
External Device Control	Monitor		●	–	–	–	–	–	●
	Control		●	–	–	–	–	–	●
Others	Database import/export		●	–	●	–	–	–	–
	Automatic clock adjustment		●	–	●	–	–	–	–
	Multi language		7 languages	–	7 languages	–	–	–	–
	Refrigerant leakage detection function		●	–	●	–	–	–	–
	Power shutdown		●	–	●	–	–	–	–

●●: Available. - : Not available.

Personal Computer System Requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® CoreTM i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) – Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection – Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) – Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection – 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

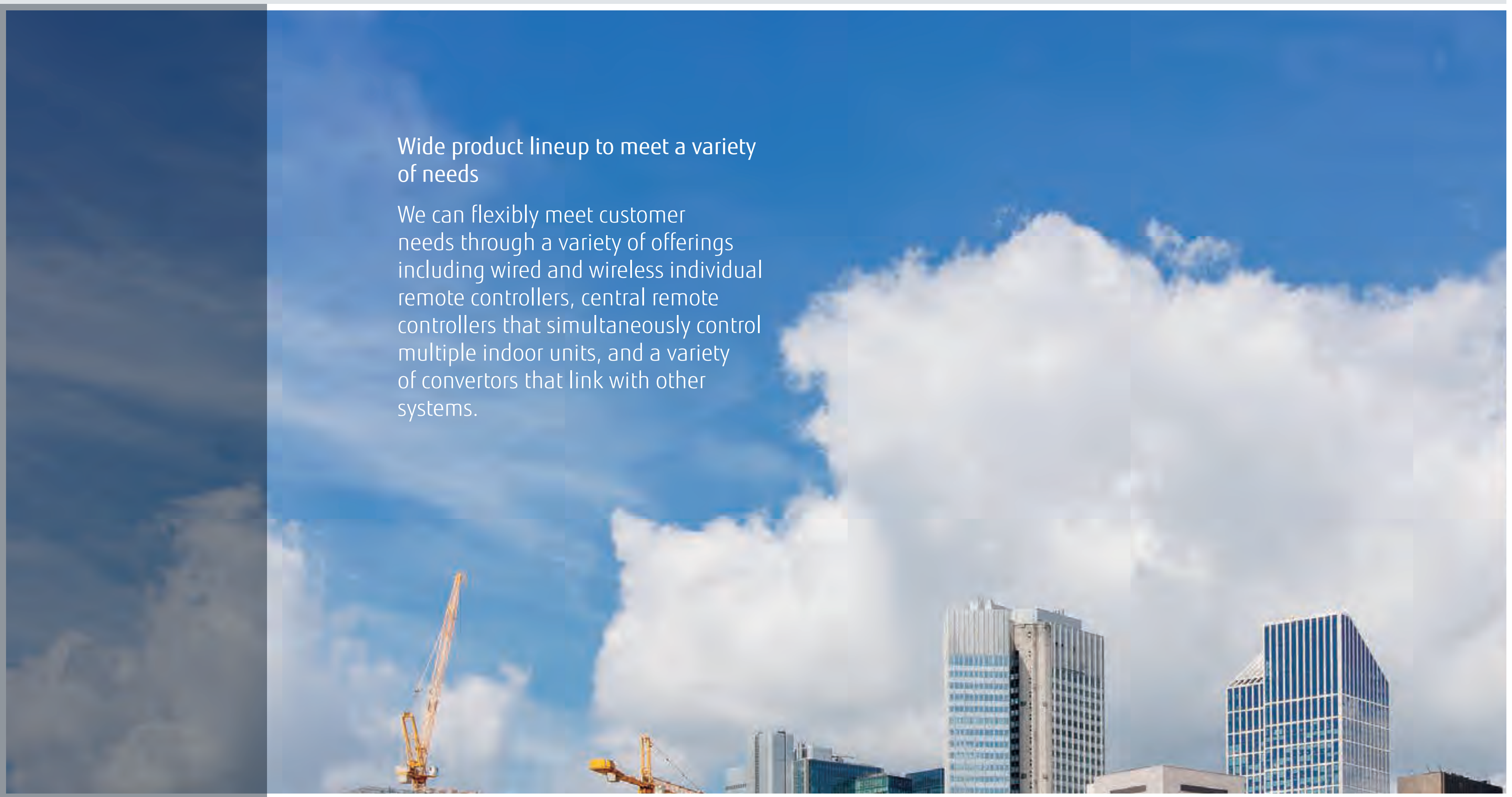
Packing List

Type	For System controller		For System controller Lite				
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Electricity charge apportionment	Energy saving	Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

Light Commercial & Commercial, Residential

CONTROL SYSTEM
& OPTIONAL PARTS



Wide product lineup to meet a variety of needs

We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of convertors that link with other systems.

CONTROL SYSTEM

INDIVIDUAL CONTROL

CONVERTOR/ADAPTOR

INDIVIDUAL CONTROL

CENTRALIZED CONTROL

CONVERTOR/ADAPTOR

INDIVIDUAL CONTROL

CENTRALIZED CONTROL

CONVERTOR/ADAPTOR

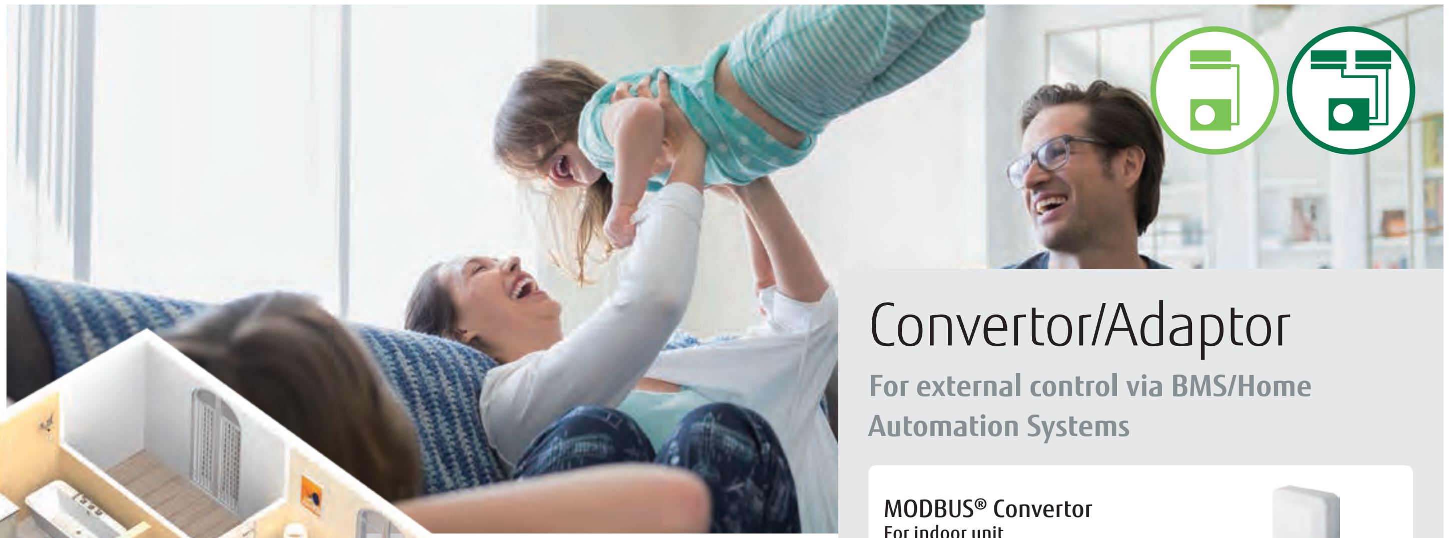
OPTIONAL PARTS

SPLIT
MULTI-SPLIT
VRF J Series
VRF V Series

Control System Overview

For Split & Multi-split

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.



Air Conditioning

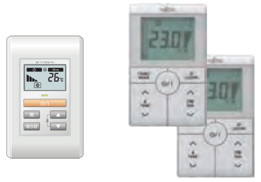
Individual Control

Wired Remote Controller

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

Wireless Remote Controller

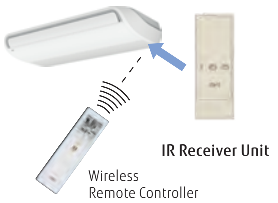
Simple and sophisticated operations with a choice of 4 daily timers



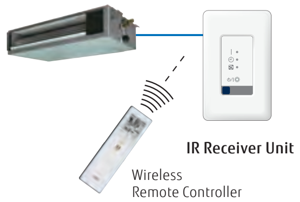
Simple Remote Controller

Compact remote controller provides access to basic functions

NEW **For Ceiling type**



For Duct type



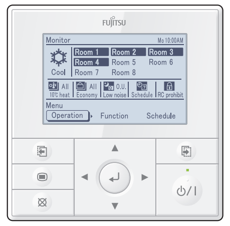
For Cassette type

IR Receiver Unit

Necessary to control for all duct type by Wireless Remote Controller

Air Conditioning

Centralized Control



Central Remote Controller For 5-6 & 8 Rooms Multi

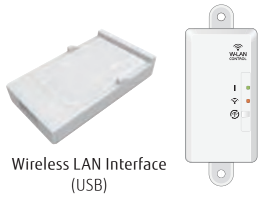
Central Remote Controller allows individual and central control

Online Control (Wireless Control via Smart Phone/Tablet)

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

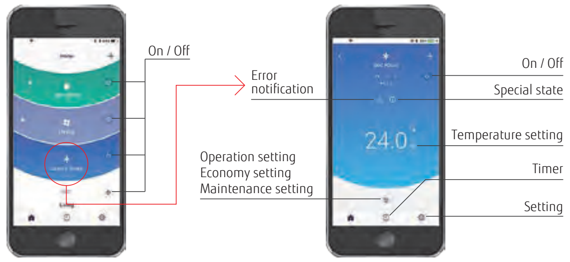


+

FGLair™ Download Free App Store Google play

NEW Simple design and user friendly interface

The new design more user friendly screen display allows you to operate easier than ever before.



Convertor/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Convertor
For indoor unit
UTY-VMSX

MODBUS® Interface
For indoor unit
FJ-RC-MBS-1

KNX® Convertor
For indoor unit
UTY-VKSX

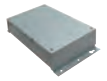
KNX® Interface
For indoor unit
FJ-RC-KNX-1i

Wireless LAN Interface
FJ-RC-WIFI-1

Network Convertor

(DC power supply)
UTY-VTGX

(AC power supply)
UTY-VTGXV



Control System Overview

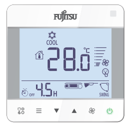
For VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

Air Conditioning
Individual Control

Wired Remote Controller
(Touch panel)
UTY-RNRYZ3

Wired Remote Controller
UTY-RLRY



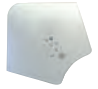
NEW **Compact Wired Remote Controller**
UTY-RCRYZ1

Simple Remote Controller
UTY-RSRY
UTY-RHRY
Without operation mode

Wireless Remote Controller
UTY-LNHY

For Duct

For 3D Flow Cassette/ Duct



For Cassette

For Circular Flow Cassette

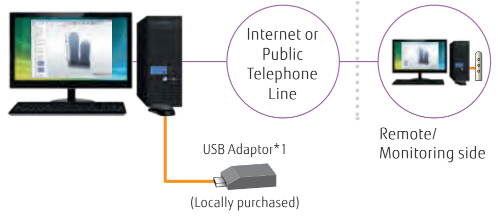
IR Receiver Unit

UTB-YWC For Duct

UTY-TRHX
For 3D Flow Cassette/Duct

UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning
Centralized Control



System Controller Software
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)

Max. Controllable 1600[2] indoor units

---

[1] USB Adaptor: Echelon® U10 USB Network Interface
[2] Lite edition is max. controllable 400 indoor units

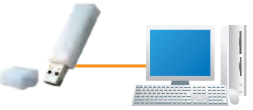
Central Remote Controller
UTY-DCGYZ1

Max. Controllable 100 indoor units

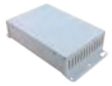
Convertor/Adaptor

For external control via BMS/Home Automation Systems

BACnet® Gateway
UTY-ABGXZ1 Software



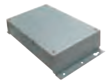
BACnet® Gateway
UTY-VBGX Hardware



Network Convertor
(For LonWorks®)
UTY-VLGX

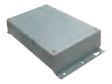
MODBUS® Convertor For indoor unit
UTY-VMSX

MODBUS® Convertor
UTY-VMGX



KNX® Convertor For indoor unit
UTY-VKSX

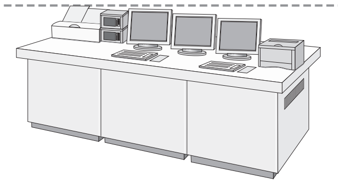
KNX® Convertor For VRF
UTY-VKGX



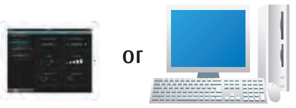
Wireless LAN Interface
UTY-TFSXZ1

External Switch Controller
UTY-TERX

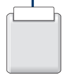
BMS/BAS[3]



BMS[3]**, Home automation system**



[3] BMS/BAS: Building Management System/Building Automation System



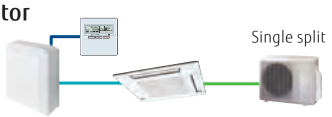
Card-key
(Locally purchased)

Internet device

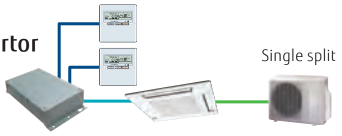
Convertor/Adaptor

For system expansion

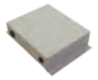
Network Convertor
(DC power supply)
UTY-VTGX



Network Convertor
(AC power supply)
UTY-VTGXV



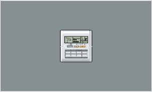
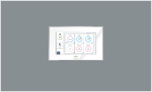
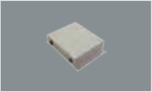
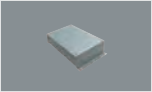
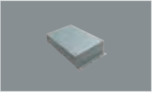
Signal Amplifier
UTY-VSGXZ1



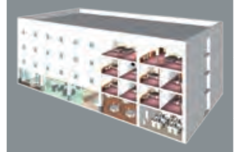
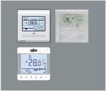
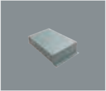
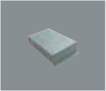
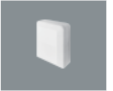
Best Control Solution for Each Property

Fujitsu General provides the best control solutions suitable for the various properties.

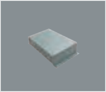
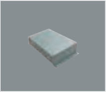
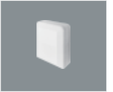
SHOP

Type	Individual Control	Centralized Control			Integrating Control (Interface)		
							
	Wired Remote Controller	**Group Remote Controller**	**Central Remote Controller**	**System Controller**	**Network Convertor for LONWORKS®**	**MODBUS® Convertor**	**KNX® Convertor**
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RCRYZ1	UTY-CGGY	UTY-DCGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●
Group Control		●	●	●			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)				●			
Remote Management			●	●			
Manage multiple sites			●	●			
Monitor energy consumption				●			
Control third party products				●			
Integrate FGL A/C into BMS					●	●	●

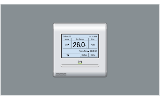
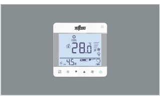
HOTEL

Type	Individual Control			Centralized Control		Integrating Control (Interface)				
										
	Wired Remote Controller	**Simple Remote Controller**	**Wireless Remote Controller**	**Central Remote Controller**	**System Controller**	**BACnet® Gateway**	**Network Convertor for LONWORKS®**	**MODBUS® Convertor**	**KNX® Convertor**	**External Switch Controller**
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	●	●	●							
Centralized A/C control for common space				●	●	●	●	●	●	
Limited control for hotel guests				●	●	●	●	●	●	
Remote Management				●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●	●				
Monitor energy consumption					●					
Control third party products					●					
Integrate FGL A/C into BMS						●	●	●	●	
Interlock with window contact										●
Interlock with key-card										●

OFFICE

Type	Individual Control			Centralized Control		Integrating Control (Interface)				
										
	Wired Remote Controller	**Simple Remote Controller**	**Wireless Remote Controller**	**Central Remote Controller**	**System Controller**	**BACnet® Gateway**	**Network Convertor for LONWORKS®**	**MODBUS® Convertor**	**KNX® Convertor**	**External Switch Controller**
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	●	●	●	●						
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●				
Centralized A/C control for management				●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)				●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●	●				
Remote Management				●	●					
Energy Charge Apportionment					●	●				
Monitor energy consumption					●					
Control third party products					●					
Integrate FGL A/C into BMS						●	●	●	●	
Interlock with door contact										●
Interlock with human sensor for meeting room										●

Comparison Table of Controllers

Item															
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Central Remote Controller	System Controller Lite Software	System Controller Software
Model name			UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups			1	1	1	1	1	1	1	1	1	1	100	400	1600
Max. controllable indoor units			16	16	16	1	16	16	16	16	16	8	100	400	1600
Max. controllable groups			–	–	–	–	–	–	–	–	–	–	50	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●	●	●	●	●	●
	Operation mode setting		●	●	●	●	●	●	–	●	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation		●	●	●	–	–	●	●	–	–	–	●	●	●
	Test operation		●	●	●	●	●	●	●	●	●	–	–	–	–
	Up/down air direction flap setting		●	●	●	●	–	●	●	●	●	–	●	●	●
	Right/left air direction flap setting		●	●	●	●	–	–	–	●	–	–	●	●	●
	Individual louver control		●	–	–	●	–	–	–	–	–	–	●*3	–	–
	Group setting		–	–	–	–	–	–	–	–	–	–	●	●	●
	RC prohibition		–	–	–	–	–	–	–	–	–	●	●	●	●
	Anti freeze setting		●	–	–	●	–	–	–	–	–	–	●	●	●
	Set temp. auto return		●	●	●	–	–	–	–	–	–	–	–	–	–
	Economy mode setting		●	●	●	●	–	–	–	●	●	●	●	●	●
	Human sensor control		●	–	–	–	–	–	–	–	–	●	–	●	●
Display	Error		●	●	●	●	●	●	●	–	–	●	●	●	●
	Defrosting		●	●	●	●	●	●	●	–	–	–	●	●	●
	Current time		●	●	●	–	–	–	–	●	●	●	●	●	●
	Day of week		●	●	●	–	–	–	–	–	–	–	●	●	●
	R.C. prohibition		●	●	●	●	●	●	●	–	–	●	●	●	●
	Address display		●	●	●	●	●	●	●	–	–	–	–	●	●
	Room temp		●	–	●	●	–	●	●	–	–	–	●*4	●*4	●*4
	Multi language		●	–	●	–	–	–	–	–	–	●	●	●	●
	Summer time		●	–	●	–	–	–	–	–	–	●	●	●	●
	Name registration		●	–	–	–	–	–	–	–	–	–	●	●	●
	Backlight		●	–	●	●	●	●	●	–	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	–	–	–	–	–	●
	Refrigerant leakage detection function		–	–	–	–	–	–	–	–	–	–	●	●	●
Timer	Schedule timer	Period	Week	Week	Week	–	–	–	–	–	–	Week	Week	Year	Year
		On/off, Temp, Mode, Times per day	8	4	8	–	–	–	–	–	–	4	20	144	144
	On/off timer		●	●	●	●(OFF only)	–	–	–	●	●	–	–	–	–
	Sleep timer		–	–	–	–	–	–	–	●	●	–	–	–	–
	Program timer		–	–	–	–	–	–	–	●	●	–	–	–	–
	Auto off timer		●	●	●	–	–	–	–	–	–	–	●	–	–
	Day off		●	●	●	–	–	–	–	–	–	●	●	●	●
	Min. unit of timer setting (Minutes)		10 • 30	30	30	–	–	–	–	5	5	5	10	10	10
Control	Status monitoring system		–	–	–	–	–	–	–	–	–	–	●	●	●
	Electricity charge apportionment		–	–	–	–	–	–	–	–	–	–	–	○	●
	Error history		●	●	●	–	–	–	–	–	–	–	●	●	●
	Emergency stop		–	–	–	–	–	–	–	–	–	–	●*2	–	–
	Remote management		–	–	–	–	–	–	–	–	–	–	●	○	●
	Energy saving management		–	–	–	–	–	–	–	–	–	–	–	○	○
	E-mail notification for malfunction		–	–	–	–	–	–	–	–	–	–	●	●	●
	Key lock		● Child lock	● Child lock	● Child lock	–	–	–	–	–	–	● Child lock	● Password setting	● Password setting	● Password setting
	Low noise mode		–	–	–	–	–	–	–	–	–	●	–	●	●

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control.
*3 Only individual airflow batch reset is mounted. *4 This function is available only when using wired remote controller.
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3

Max. Controllable

16 indoor units

Max. Controllable

1 Group

Easy operation by high-definition large STN-LCD touch panel screen

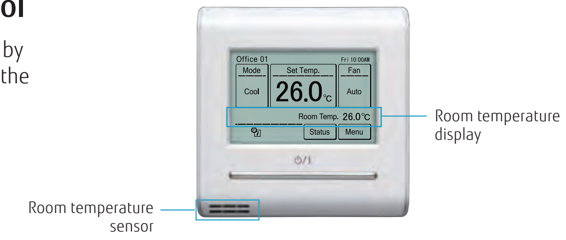
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using one remote controller only.

Accurate and comfortable control

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



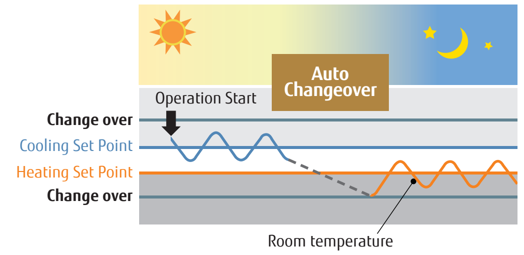
Various energy saving control

Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

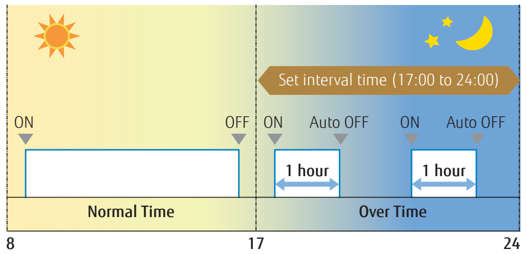
* This function is not available for some models.

Cooling set temp. 27℃, Heating set temp. 26℃



Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes



Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY

- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

Max. Controllable

16 indoor units

Max. Controllable

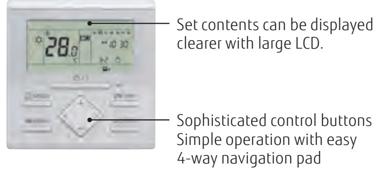
1 Group

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

High visibility and easy operation

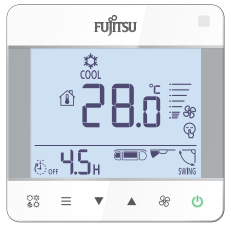
- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.



Compact Wired Remote Controller

UTY-RCRYZ1

NEW



- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

Max. Controllable

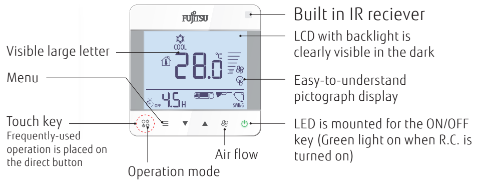
1 single indoor unit

Max. Controllable

1 Group

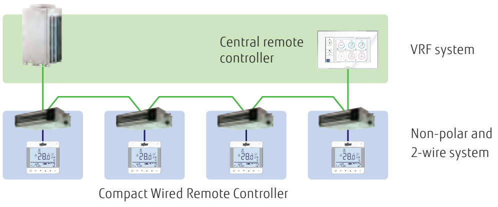
Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

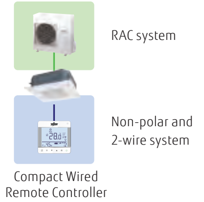


System overview

VRF connection



RAC connection



Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTY-RSRY / UTY-RHRY (Without operation mode)

UTY-RSRY

UTY-RHRY
(Without
operation mode)

Max. Controllable
16 indoor units

Max. Controllable
1 Group

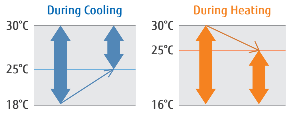
Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

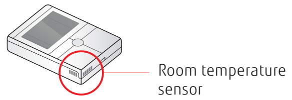
Corresponding to various applications

- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.

- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.



- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (Without operation mode)

UTY-RSNYM
UTY-RSKY

UTY-RHKY
(Without
operation mode)

Max. Controllable
16 indoor units

Max. Controllable
1 Group

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

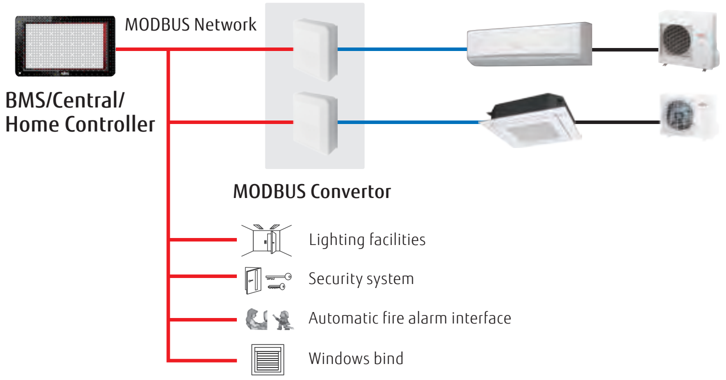
MODBUS® Convertor for Indoor Unit

UTY-VMSX

Max. Connectable
1 Single indoor unit

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Convertor must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

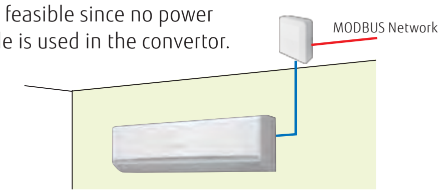


Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature setting and display
- Economy mode setting
- Error status

Easy Installation

Flexible installation locations with neat wirings are feasible since no power supply cable is used in the convertor.



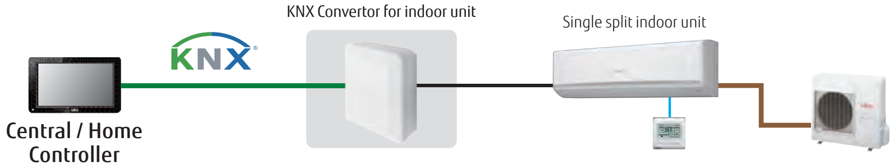
KNX® Convertor for Indoor Unit

UTY-VKSX

Max. Connectable
1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

- New KNX Convertor enables to connect central/home controller and Fujitsu General indoor unit.
- Compact and light weight design



Specifications

Model name	UTY-VMSX
Power supply	DC 12 V
Input Power (W)	Max. 1.2
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	200
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1

Modbus communication specifications

Transfer mode	RTU mode
Communication speed	9600/19200bps
Data bit	8
Parity	even/odd/none
Stop bit	1/2 (no parity)
Network	RS485
Maximum cable length	1000m (3280 ft)

Model name	UTY-VKSX
Power supply	DC 12 V
Power consumption (W)	0.6
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	215

Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2

USB type for single split models
UTY-TFSXF2

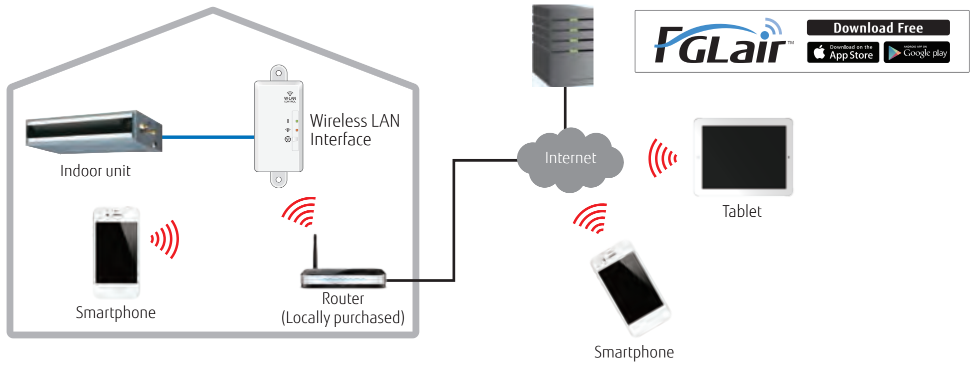
UTY-TFNXZ1
UTY-TFSXZ1

UTY-TFSXW1

Max. Connectable

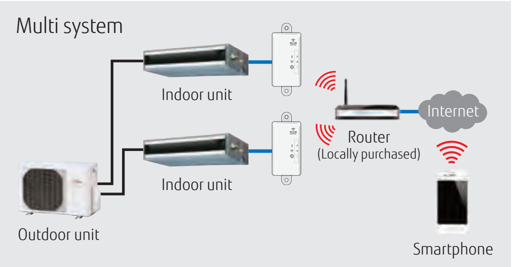
1 Single indoor unit

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



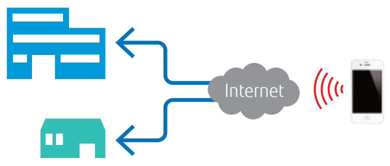
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting



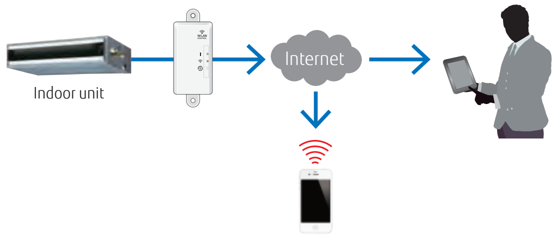
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.



Wireless LAN Interface (USB type)

UTY-TFSXF2

New compact USB type is available. Specialized installation work is not required and it can be installed to indoor unit easily.

Specifications

Model name	UTY-TFNXZ1 / UTY-TFSXZ1	UTY-TFSXW1	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	30

External Switch Controller

UTY-TERX

Max. Controllable

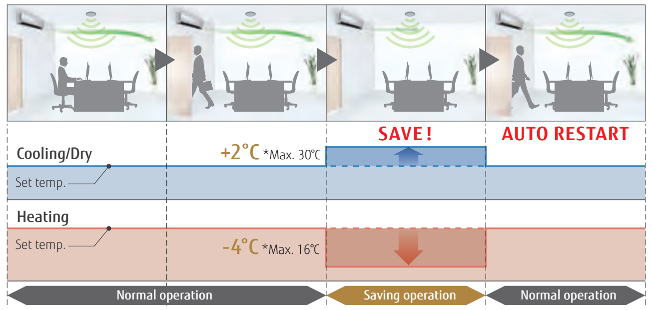
1 group

Air conditioner switching can be controlled by connecting other sensor switches

- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a locally purchased parts.
- The set temperature can be specified at two points for cooling and heating individually (4 points).

Installation example

Human sensor catches movements of people in a room, and operates with lower capacity when people come back to the room, it automatically returns to previous operation mode.



Human sensor equipment needs to be purchased locally.
Human sensor is not mounted on the External Switch Controller.

Specifications

Model name	UTY-TERX
Power Supply	DC 6.5-16 V
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	250

DC 12 V is supplied by the indoor unit.

Wired Remote Controller
UTY-RVNYM

Max. Controllable
16 indoor units

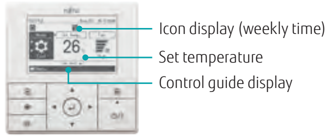
Max. Controllable
1 Group

Hi-grade individual control using various functions.

- 3.7-inch LCD backlight screen.
- Supporting various Energy Saving functions with simple operation.
- Multiple Language Support.
  (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

High visibility and Easy operation

- Icon display of effectual functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.



High performance and compact size

- In addition to the individual control, various energy saving controls can be realized using only one remote controller.

Individual control + Thermo sensor + Weekly timer + Auto off timer →

Various energy saving control

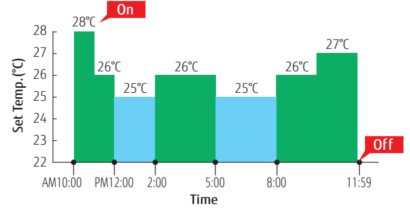
Weekly Timer function

- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings(i.e. Summer/Winter setting) are available.

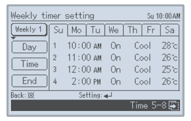
Auto OFF Timer

- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting

Weekly 1

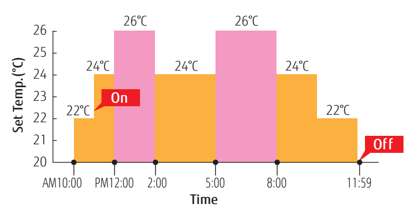


Setting menu in remote controller

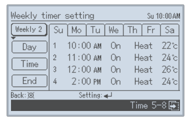


```
Weekly timer setting              Su 10:00AM
Weekly 1  Su Mo Tu We Th Fr Sa
Day       1  10:00 AM  On  Cool  28℃
Time      2  11:00 AM  On  Cool  26℃
End       3  12:00 AM  On  Cool  25℃
          4   2:00 PM  On  Cool  26℃
Back:     Setting:
                              Time 5-8
```

Weekly 2



Setting menu in remote controller



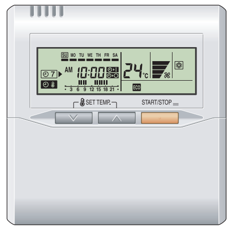
```
Weekly timer setting              Su 10:00AM
Weekly 2  Su Mo Tu We Th Fr Sa
Day       1  10:00 AM  On  Heat  22℃
Time      2  11:00 AM  On  Heat  24℃
End       3  12:00 AM  On  Heat  26℃
          4   2:00 PM  On  Heat  24℃
Back:     Setting:
                              Time 5-8
```

Specifications

Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller
UTY-RNNYM



Max. Controllable
16 indoor units

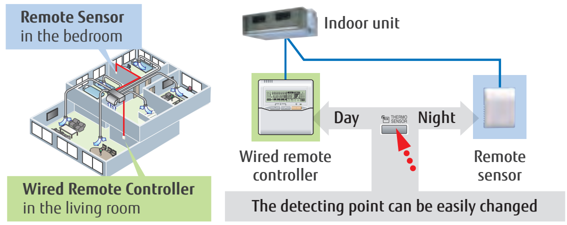
Max. Controllable
1 Group

- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor



Displayed temperature is set temperature.

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.
Setback timer: Possible to set temperature for two times spans and for each day of the week.
At "Weekly timer" + "Set back timer" setup

Wireless Remote Controller
UTY-LNTY

Max. Controllable
16 indoor units

Max. Controllable
1 Group

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

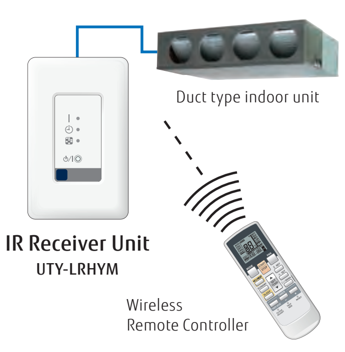
Specifications

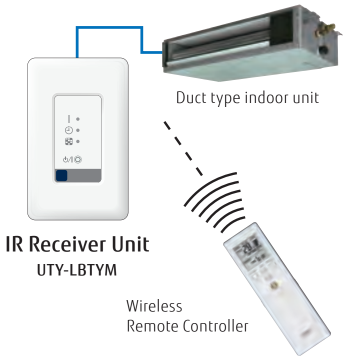
Model name	UTY-RNNYM	UTY-LNTY
Power Source	DC 12 V	DC5V
Dimensions (H × W × D) (mm)	120 × 120 × 18	145 × 90 × 30
Weight (g)	160	150

DC 12 V is supplied by the indoor unit.

IR Receiver Unit for Duct

UTY-LRHYM, UTY-LBTYM





Duct type indoor units can be controlled with Wireless Remote Controller

IR Receiver Unit for Cassette

UTY-LRHYA2, UTY-LBTYC

Cassette type indoor unit can be controlled with Wireless Remote Controller

IR Receiver Unit for Ceiling

UTY-LBTYH

NEW

Ceiling type indoor unit can be controlled with Wireless Remote Controller

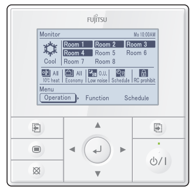
Specifications

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHYA2	UTY-LBTYC	UTY-LBTYH
Battery	DC5V	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	174.8×48.6×23.1
Weight (g)	150	150	140	140	TBA

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM



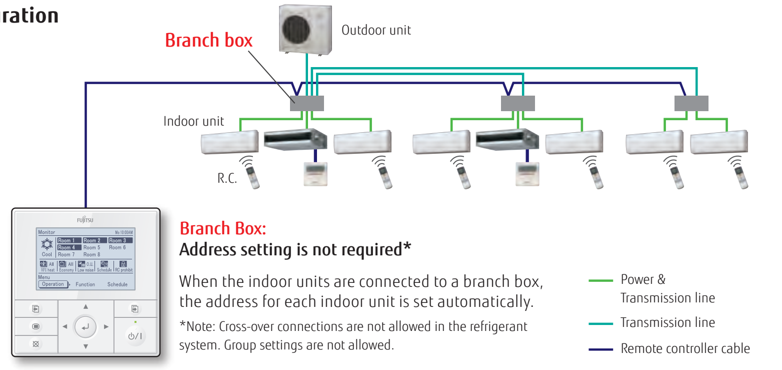
For 5-unit, 6-unit, 8-unit multi-split type

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable
1 multi system

Max. Controllable
8 indoor units

System configuration



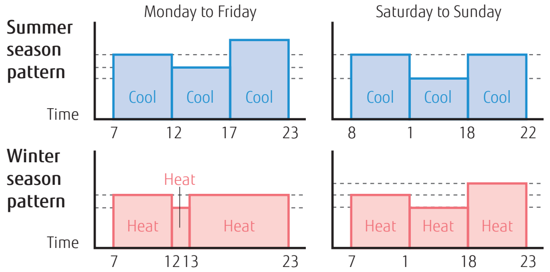
Branch Box:
Address setting is not required*

When the indoor units are connected to a branch box, the address for each indoor unit is set automatically.

*Note: Cross-over connections are not allowed in the refrigerant system. Group settings are not allowed.

Central Remote Controller Functions

Weekly schedule timer
The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.

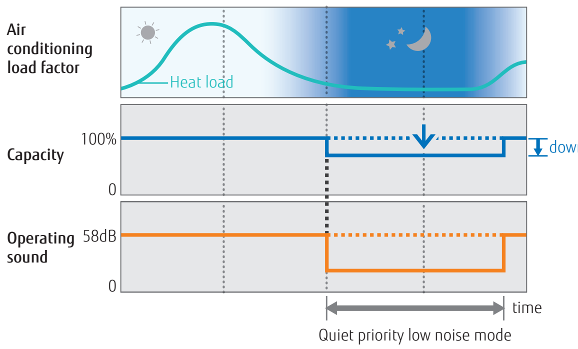


Low noise operation
Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

10°C heat operation
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

Economy operation
Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

Quiet priority setting



Prohibited Settings
The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc.

Specifications

Model name	UTY-DMMYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.

MODBUS® Interface

FJ-RC-MBS-1

Max. Connectable

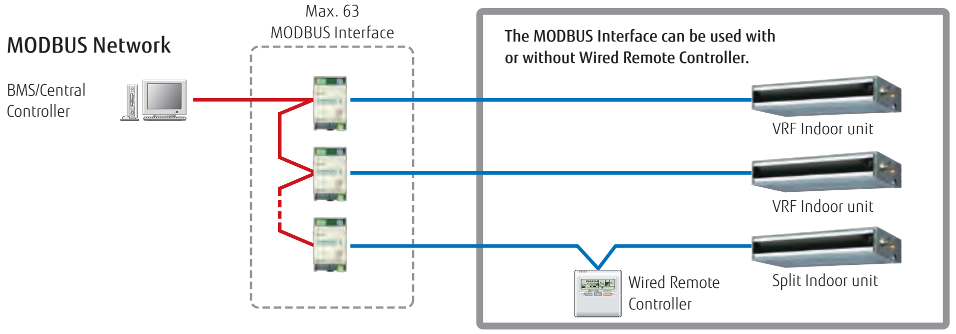
1 Single indoor unit

Max. Controllable

1 Group

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.



KNX® Interface

FJ-RC-KNX-1i

Max. Connectable

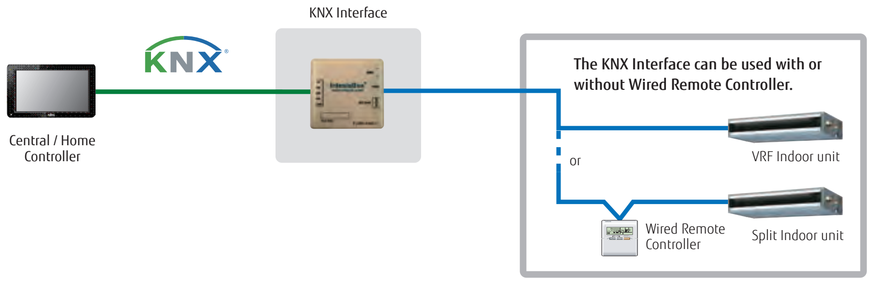
1 Single indoor unit

Max. Controllable

1 Group

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor unit and group controlled (up to 16) indoor units.



Specifications

Model name	FJ-RC-MBS-1	FJ-RC-KNX-1i
Dimensions (H × W × D) (mm)	93 × 53 × 58	70 × 70 × 28
Weight (g)	85	70

Wireless LAN Interface

FJ-RC-WIFI-1

Max. Connectable

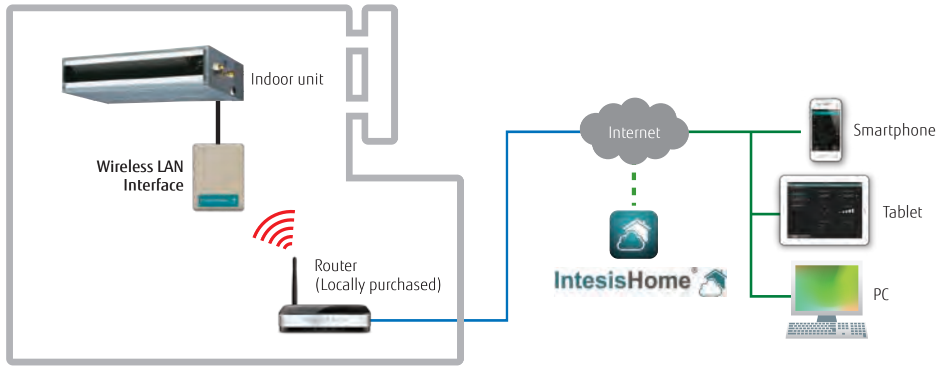
1 Single indoor unit

Max. Controllable

1 Group

IntesisHome®

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor unit and group controlled (up to 16) indoor units



Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

(Application screen image)

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

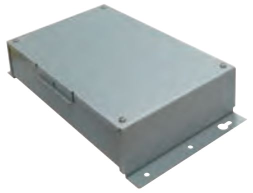
Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H × W × D) (mm)	108 × 70 × 28
Weight (g)	80

Network Convertor for Single Split

UTY-VTGX / UTY-VTGXV

UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

Max. Controllable
16
single indoor units

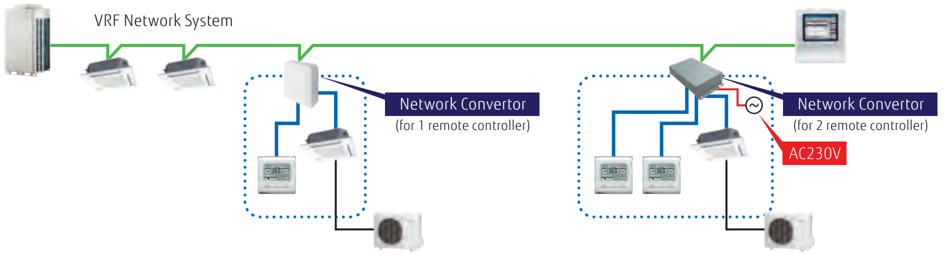
Max. Controllable
1 Group

Max. Controllable
100
Network Convertors

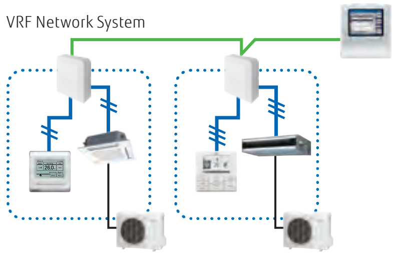
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

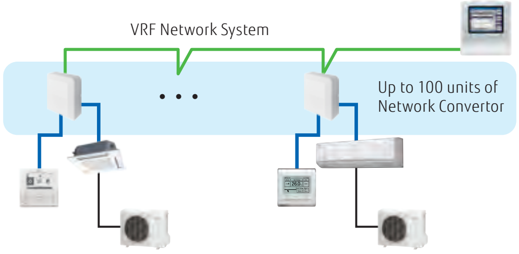
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



- 2-wire and 3-wire type of the wired remote controller can be connectable.



- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Wireless Remote Controller

UTY-LNHY

Max. Controllable
16 indoor units

Max. Controllable
1 Group

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

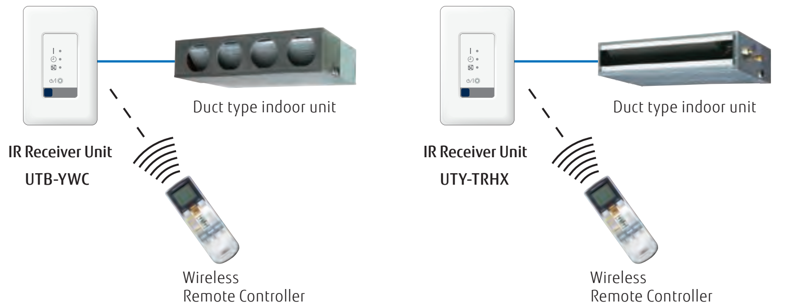
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct can not be connected to IR Receiver Unit.

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHXD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGYZ1

For small- and medium-sized buildings and tenants

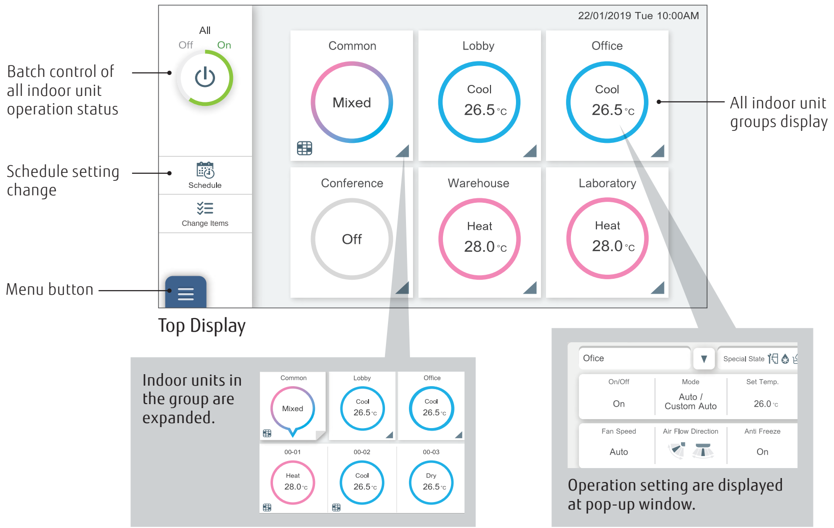
- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian,Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Max. Controllable
100 indoor units

Max. Controllable
50 groups

Easy operation

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display and the following operations are displayed at pop-up window.



Top Display

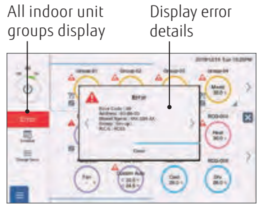
Indoor units in the group are expanded.

Office
Special State
On/Off: On
Mode: Auto / Custom Auto
Set Temp.: 26.0 °C
Fan Speed: Auto
Air Flow Direction
Anti Freeze: On

Operation setting are displayed at pop-up window.

Trouble support function

Display error details
Display descriptive explanation when an error occurs



Sensor value monitoring function
Monitor sensor data of indoor unit / outdoor unit, send mail

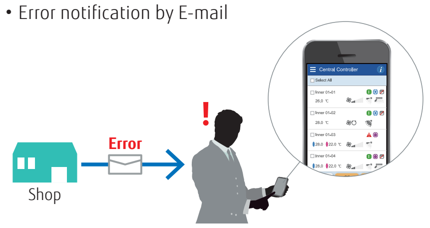
Notify room temperature by email*
Notify by e-mail when the temperature around the air conditioner is too high or too low

*:This function is available only when using wired remote controller.

Remote monitoring / Remote operation

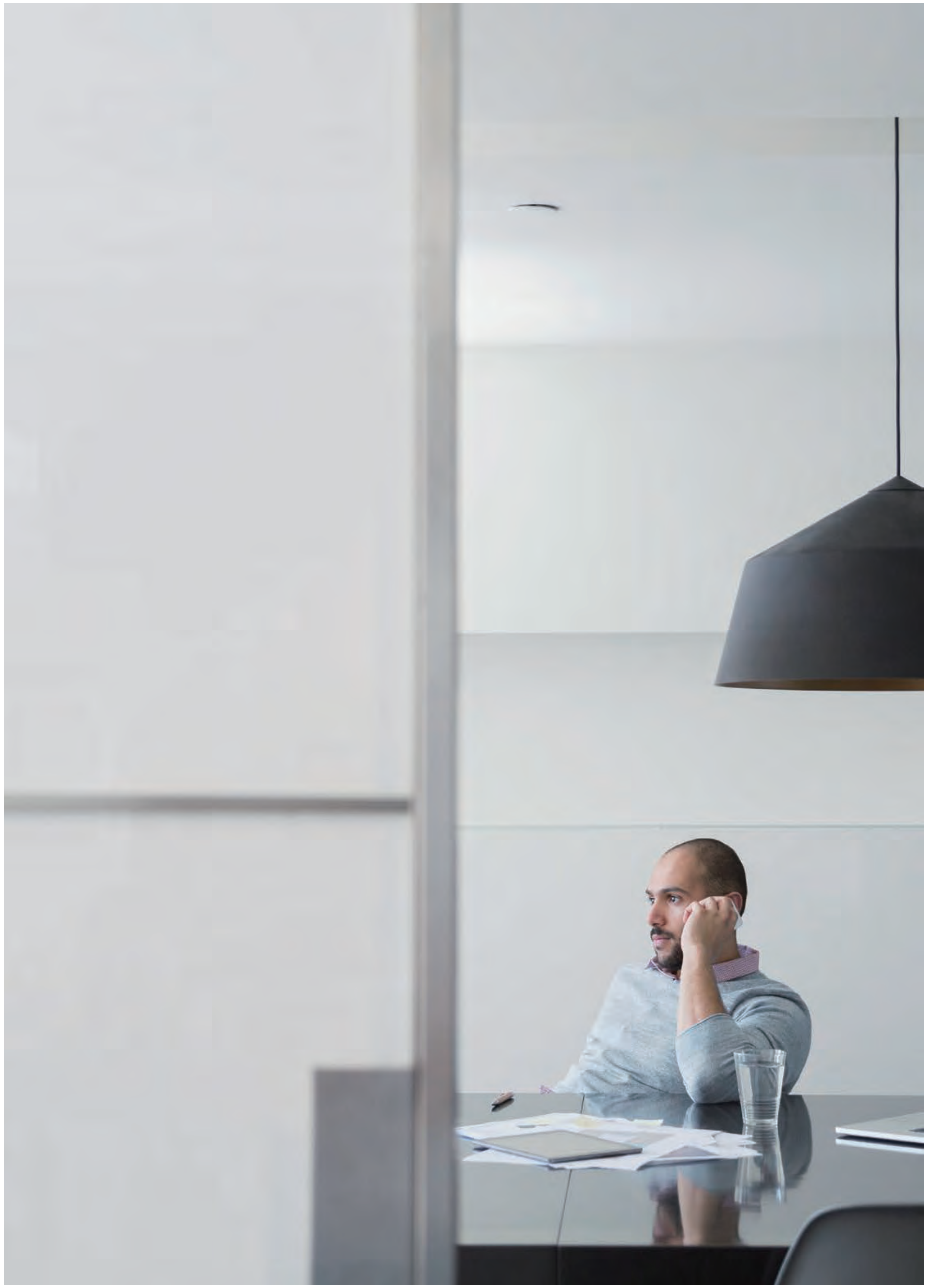
New central remote controller can control your tenant's air conditioner anytime and anywhere.

Example
- Control / Monitoring Fujitsu air conditioner
- Error notification by E-mail



Specifications

Model name	UTY-DCGYZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800



System Controller

UTY-APGXZ1 Software

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

System Controller Lite

UTY-ALGXZ1 Software

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

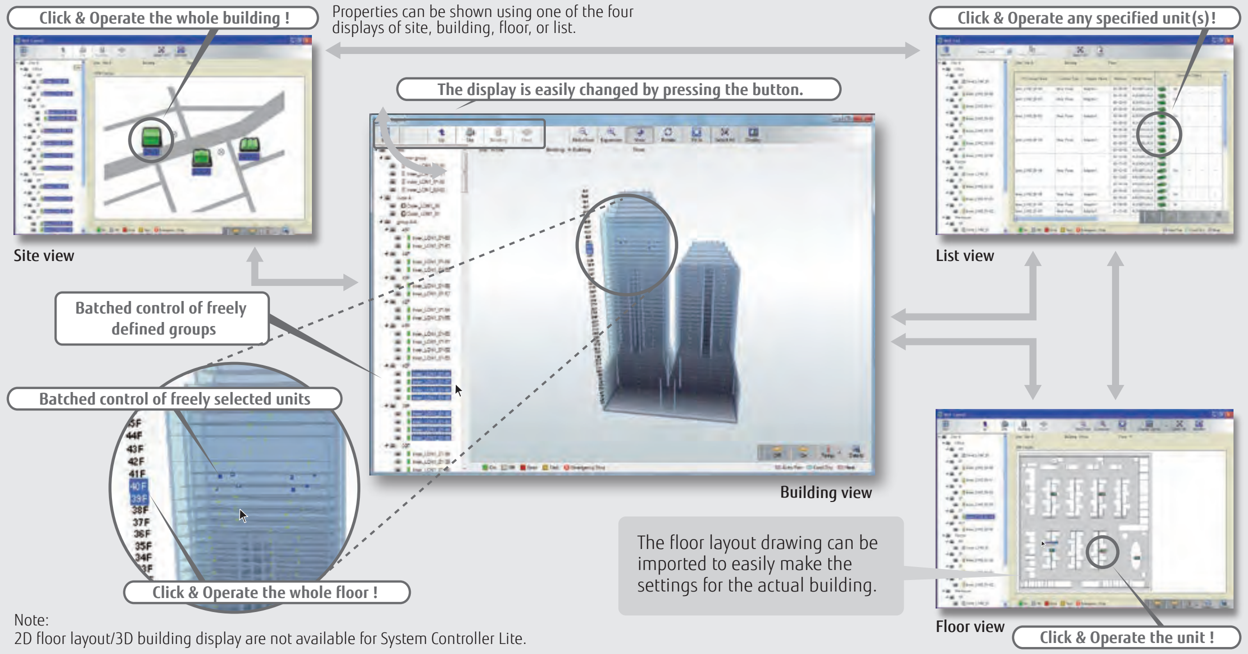
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

High visibility and Easy operation

Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



The floor layout drawing can be imported to easily make the settings for the actual building.

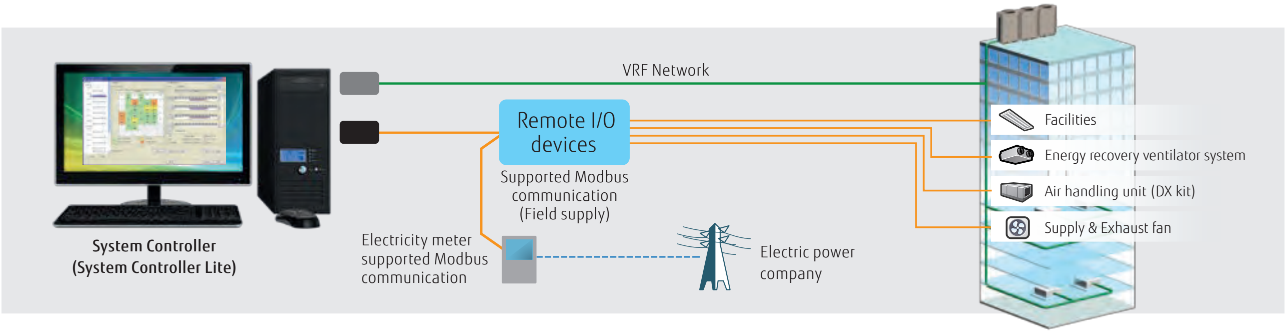
Note:
2D floor layout/3D building display are not available for System Controller Lite.

Features: System Controller/System Controller Light

3rd party devices connected by Modbus can be controlled.

Standard for System Controller Option for System Controller Lite UTY-PLGXX2

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.

Diverse control of indoor unit and outdoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation
- Outdoor unit low noise setting

Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/ stop, etc.

Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Errors for the past 1 year are logged and can be reviewed later.

Operating & control record

Displays the history of operation status and control.

Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

Automatic clock adjustment

The time setting of each controller can be set in batch automatically.

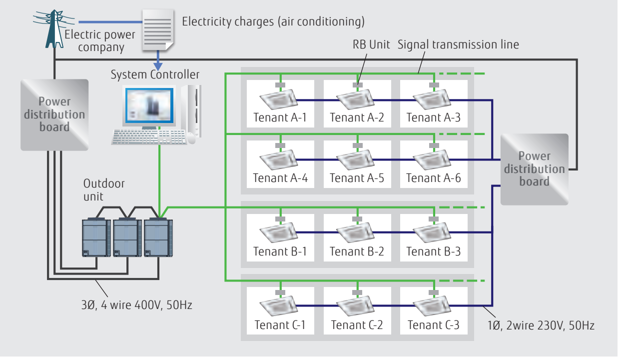
Electricity charge apportionment

Standard for System Controller
Option for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example



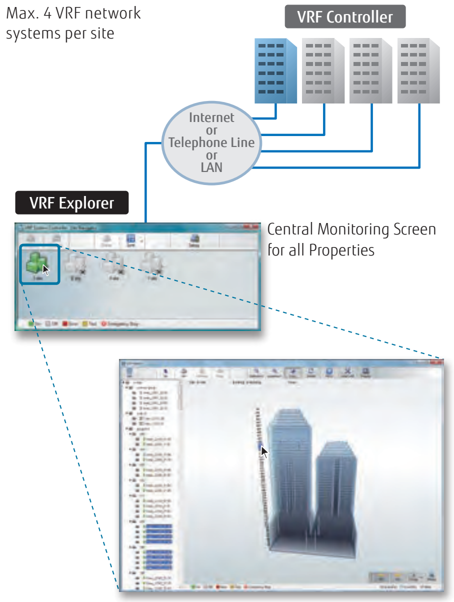
Features: System Controller/System Controller Light

Remote management

Standard for System Controller
Option for System Controller Lite UTY-PLGXR2

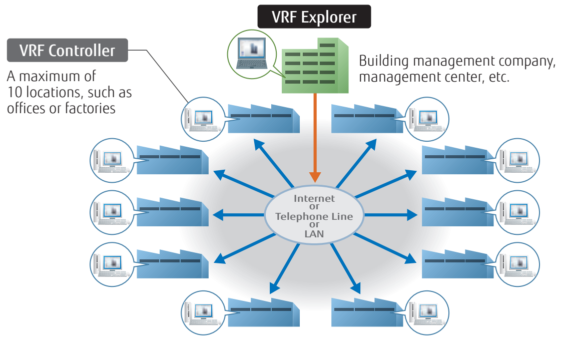
System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system.
VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control

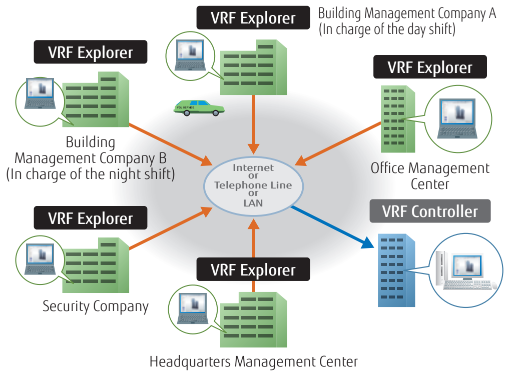


Special Property Detailed Monitoring Screen

Remote central control



1 VRF Explorer can control or monitor up to 10 sites.



1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).

Energy saving management

Option for System Controller UTY-PEGXZ1
Option for System Controller Lite UTY-PLGXE2

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

FUNCTIONS SUMMARY

Function	Type		System controller		System controller lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
System specification	Max. VRF networks supported		4	–	1	–	–	–	–
	Max. indoor unit / remote controller groups per VRF network		400	–	400	–	–	–	–
	Max. outdoor units per VRF network		100	–	100	–	–	–	–
	Max. indoor units / remote controller groups per System controller		1600	–	400	–	–	–	–
	Max. outdoor units per System controller		400	–	100	–	–	–	–
Site supervision	Multi site display		10	–	10	–	–	–	–
	Number of building / 1 site		20	–	–	–	–	–	–
	Number of floor per 1 site		200	–	–	–	–	–	–
	Number of floor per 1 building		50	–	–	–	–	–	–
	3D graphical layout view		●	–	–	–	–	–	–
	2D graphical layout view		●	–	–	–	–	–	–
	List display		●	–	●	–	–	–	–
	Tree display		●	–	●	–	–	–	–
	Group display		●	–	●	–	–	–	–
Error management	Error notification		●	–	●	–	–	–	–
	Audible alarm		●	–	●	–	–	–	–
	Error e-mail notification		●	–	●	–	–	–	–
History	Error history		●	–	●	–	–	–	–
	Operation history		●	–	●	–	–	–	–
	Control history		●	–	●	–	–	–	–
Operation control	Individual control	On/Off	●	–	●	–	–	–	–
		Operation mode*	●	–	●	–	–	–	–
		Room temperature	●	–	●	–	–	–	–
		Fan speed	●	–	●	–	–	–	–
		Air flow direction	●	–	●	–	–	–	–
		Economy mode	●	–	●	–	–	–	–
		Room temperature set point limitation	●	–	●	–	–	–	–
		Antifreeze	●	–	●	–	–	–	–
		Outdoor unit low noise setting	●	–	●	–	–	–	–
	Individual management	Remote control prohibition setting	●	–	●	–	–	–	–
		Temperature upper and lower limit setting	●	–	●	–	–	–	–
		Filter sign reset	●	–	●	–	–	–	–
	Other	Memory operation	●	–	●	–	–	–	–
		Pattern operation	●	–	●	–	–	–	–
Schedule	Annual Schedule		●	–	●	–	–	–	–
	Special day setting		●	–	●	–	–	–	–
	On /off per day		72	–	72	–	–	–	–
	On / off per week		504	–	504	–	–	–	–
	Day off		●	–	●	–	–	–	–
	Min. unit of timer setting (Minutes)		10	–	10	–	–	–	–
	Low noise mode Weekly schedule		●	–	●	–	–	–	–
Remote management	Web Operation		●	–	●	–	–	–	–
	Remote monitoring		●	–	–	●	–	–	–
	Remote operation control		●	–	–	●	–	–	–
	Remote function setting		●	–	–	●	–	–	–
Electricity charge apportionment	Apportionment charge/bill calculation		●	–	–	–	●	–	–
	Tenant (block) setting		●	–	–	–	●	–	–
	Common facilities apportionment setting		●	–	–	–	●	–	–
	Rated power consumption allotment setting		●	–	–	–	●	–	–
	Individual calculation at cooling and heating		–	●	–	–	●	–	–
	Electricity meter supported		–	●	–	–	●	–	–
Energy saving management	Indoor unit rotation		–	●	–	–	–	●	–
	Peak cut control		–	●	–	–	–	●	–
	Outdoor unit capacity save		–	●	–	–	–	●	–
	Record of energy saving operation		–	●	–	–	–	●	–
	Energy saving information		–	●	–	–	–	●	–
	Power consumption monitor		–	●	–	–	–	●	–
	Electricity meter supported			●		–	–	●	–
External Device Control	Monitor		●	–	–	–	–	–	●
	Control		●	–	–	–	–	–	●
Others	Database import/export		●	–	●	–	–	–	–
	Automatic clock adjustment		●	–	●	–	–	–	–
	Multi language		7 languages	–	7 languages	–	–	–	–
	Refrigerant leakage detection function		●	–	●	–	–	–	–
	Power shutdown		●	–	●	–	–	–	–

●●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® CoreTM i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

• Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

PACKING LIST

Type	For System controller		For System controller Lite				
		Option		Option			
	System Controller	Energy manager	System Controller Lite	Remote access	Electricity charge apportionment	Energy saving	Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

BACnet® Gateway

UTY-ABGXZ1 Software

WHITE-USB-KEY
(Software Protection Key)

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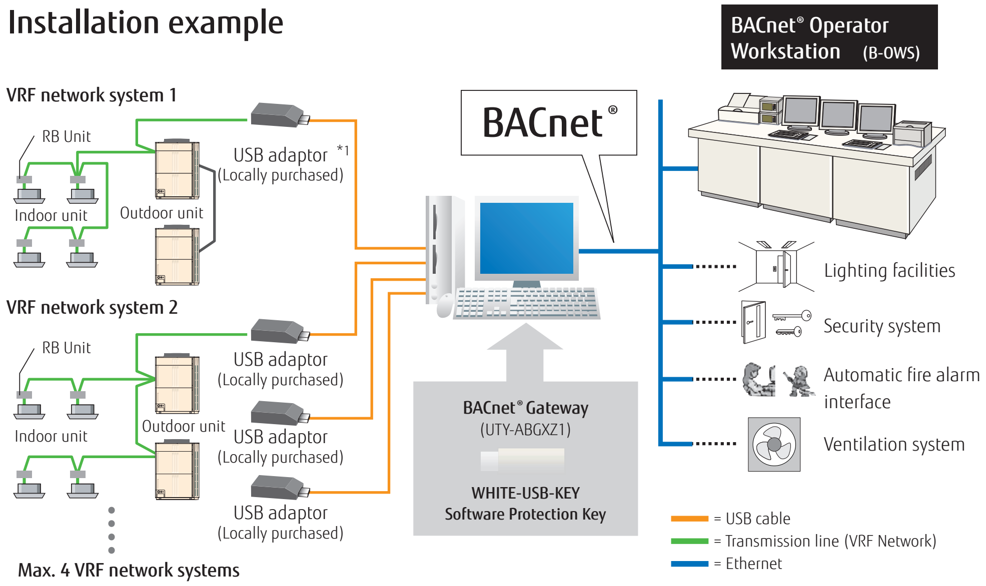
- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable
4
VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGXZ1
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later

•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway

UTY-VBGX Hardware

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.

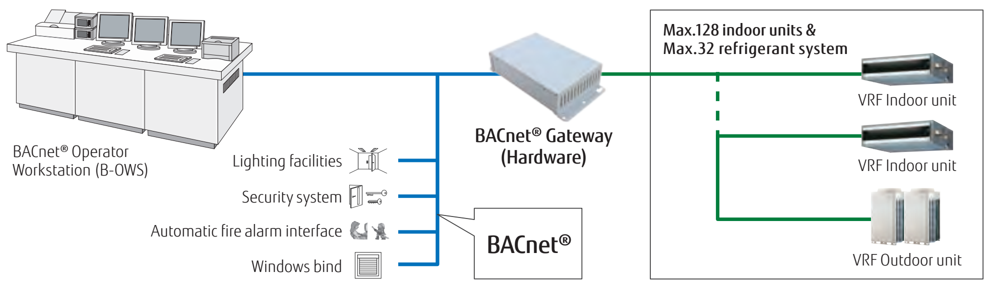
- BACnet® Gateway enables to connect a BMS and Fujitsu General VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Max. Controllable
1 VRF network system

Max. Controllable
32 refrigerant systems

Max. Controllable
128 indoor units

Installation example



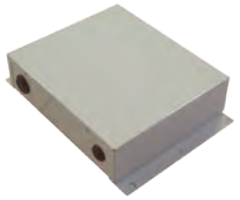
Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

Model name	UTY-VBGX
Power Supply	Single phase, 100-240V, 50/60 Hz
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1,200

Network Convertor for LONWORKS®

UTY-VLGX



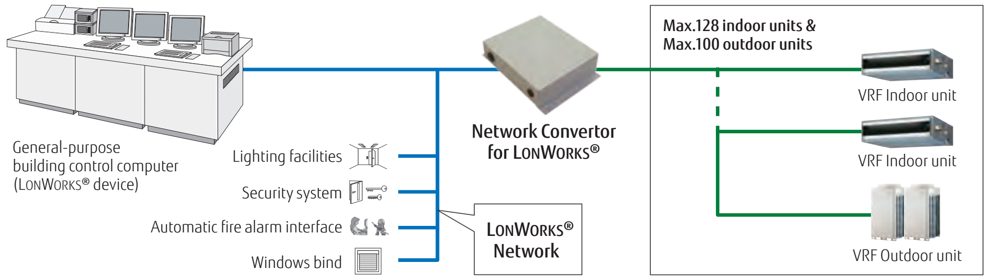
- For connection between VRF network system and a **LONWORKS®** open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a **LONWORKS®** interface.
- Up to 128 Indoor units can be connected to one Network Convertor for **LONWORKS®**

Max. Controllable
4 units to BMS

Max. Controllable
100 outdoor units

Max. Controllable
128 indoor units

Installation example



Specifications

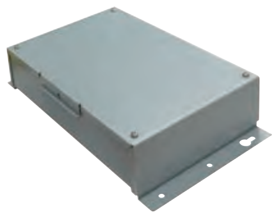
Model name	UTY-VLGX
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

MODBUS® Convertor for VRF

UTY-VMGX



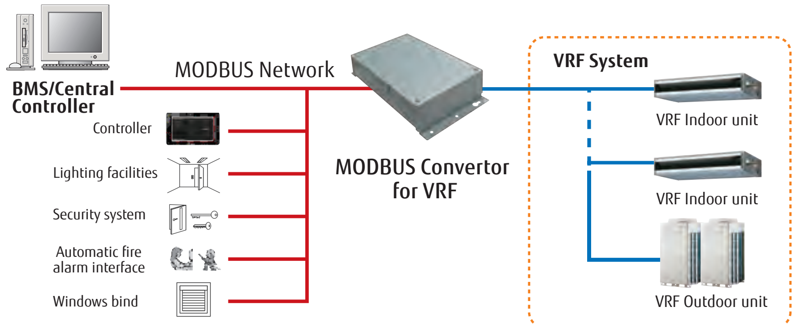
Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

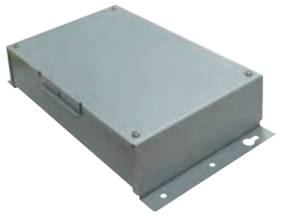
- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.



* BMS : Building Management System

KNX® Convertor for VRF

UTY-VKGX

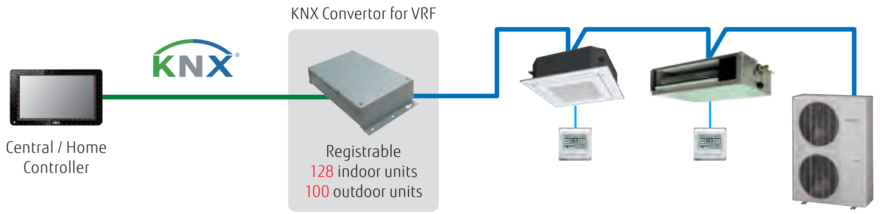


Max. Controllable
100 outdoor units

Selectable
128 indoor units

KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and Fujitsu General VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor.



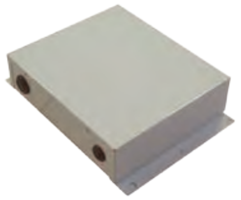
Specifications

Model name	UTY-VMGX
Power Supply	220-240 V 50/60 Hz
Input power (W)	Max. 2
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,100

Model name	UTY-VKGX
Power supply	220-240 V 50/60 Hz
Power consumption (W)	1.5
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,200

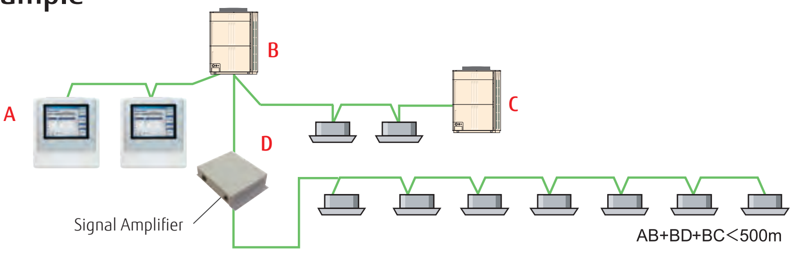
Signal Amplifier

UTY-VSGXZ1



- Transmission Line length can be extended up to 3,600 m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
  (1) When the total wiring length of the transmission line exceeds 500 m.
  (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

Model name	UTY-VSGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Controller System List (available) For Split/Multi-split

Controller Options / Accessories:

Type			Indoor unit							Indoor unit									
			Wall Mounted							Cassette		Cassette				Ceiling	Multi-split		
			Flagship Series	Designer Series		Standard Series			ECO Series	Compact 4-way Flow Series	Circular Flow Series	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure		Compact Cassette	Mini Duct	Slim Duct
			ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTA	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	AUXG 09/12/14/ 18/22/24 KVLA	AUXG 18/22/24/30/ 36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG 45/54KHTA	ABYG 18/22/24/30/ 36/45/54 KRTA	AUXG 07KVLA	ARXG 07/09/12/14 KSLAP	ARXG 07KLLAP
Controllers	Wired Remote Controller			● UTY-RNRYZ3+ UTY-TWRXZ2			● UTY-RNRYZ3+ UTY-TWRXZ2			● UTY-RNRYZ3						● UTY-RNRYZ3			
				● UTY-RLRY+ UTY-TWRXZ2			● UTY-RLRY+ UTY-TWRXZ2			● UTY-RLRY						● UTY-RLRY			
				● UTY-RCRYZ1+ UTY-TWRXZ2			● UTY-RCRYZ1+ UTY-TWRXZ2			● UTY-RCRYZ1						● UTY-RCRYZ1			
						● UTY-RVNYM+ UTY-TWBXF2				● UTY-RVNYM							● UTY-RVNYM		
						● UTY-RNNYM+ UTY-TWBXF2				● UTY-RNNYM							● UTY-RNNYM		
	Simple Remote Controller	 2-wire type 3-wire type		● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2		● UTY-RSNYM+ UTY-TWBXF2	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2			● UTY-RSRY, UTY-RHRY, UTY-RSNYM					● UTY-RSNYM	● UTY-RSRY, UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSNYM		
	Central Remote Controller																		
	Wireless Remote Controller									● UTY-LNTY							● UTY-LNTY		
	IR Receiver Unit with Wireless Remote Controller	 For Duct For Cassette																	
		 For Duct For Cassette For Ceiling									● UTY-LBTYC	● UTY-LBTYM				● UTY-LBTYH		● UTY-LBTYM	● UTY-LBTYM
Interface	MODBUS Convertor			● UTY-VMSX	● UTY-VMSX*1	● UTY-VMSX	● UTY-VMSX*1			● UTY-VMSX						● UTY-VMSX			
	MODBUS Interface									● FJ-RC-MBS-1								● FJ-RC-MBS-1	
	KNX Convertor			● UTY-VKSX	● UTY-VKSX*1	● UTY-VKSX	● UTY-VKSX*1			● UTY-VKSX						● UTY-VKSX			
	KNX Interface									● FJ-RC-KNX-1i							● FJ-RC-KNX-1i		
	Wireless LAN Interface		● Accessory	● UTY-TFSXW1		● UTY-TFSXW1				● UTY-TFSXZ1					● UTY-TFNXZ1	● UTY-TFSXZ1			
					● UTY-TFSXF2		● UTY-TFSXF2												
										● FJ-RC-WIFI-1							● FJ-RC-WIFI-1		
	External Switch Controller			● UTY-TERX+UTY-TWRXZ2		● UTY-TERX+ UTY-TWBXF2	● UTY-TERX+UTY-TWRXZ2			● UTY-TERX									
	Network Convertor for Single Split	 DC Power Supply Type AC Power Supply Type		● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2		● UTY-VTGX+UTY-TWBXF2 or UTY-VTGXV+UTY-TWBXF2	● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2			● UTY-VTGX UTY-VTGXV									

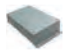
*There are no optional parts for KL series.

*1: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed.

Controller System List (available) For Split/Multi-split

Controller Options / Accessories:

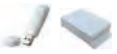
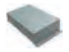
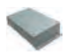
REFRIGERANT R410A

Type			Indoor unit									Indoor unit												Outdoor unit	Other
			Wall Mounted					Cassette			Duct	Duct					Floor	Floor/Ceiling	Ceiling	Multi-split				Single Phase	Branch Box (8 Rooms Multi)
			Designer Series		Standard Series			Compact 4-way Flow Series	Circular Flow Series	4-way Flow Series	Mini	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Big				Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling	5-unit, 6-unit multi-split	
			ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 18LVTB, ABYG 24LVTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	AUYG 07/09LVLA	ARYG 07/09LSLAP	ARYG 07/09LLTA	ABYG 14LVTA	AOYG 36LBLA5, AOYG 45LBLA6	UTP-PY03A UTP-PY02A
Controllers	Wired Remote Controller						● UTY-RNRYZ3+ UTY-TWRX		● UTY-RNRYZ3		● UTY-RNRYZ3		● UTY-RNRYZ3			● UTY-RNRYZ3					● UTY-RNRYZ3				
							● UTY-RLRY+ UTY-TWRX		● UTY-RLRY		● UTY-RLRY		● UTY-RLRY			● UTY-RLRY					● UTY-RLRY				
							● UTY-RCRYZ1+ UTY-TWRX		● UTY-RCRYZ1		● UTY-RCRYZ1		● UTY-RCRYZ1			● UTY-RCRYZ1					● UTY-RCRYZ1				
			● UTY-RVNYM+ UTY-TWBXF		● UTY-RVNYM+ UTY-XCBXZ2	● UTY-RVNYM	● UTY-RVNYM+ UTY-XWNX	● UTY-RVNYM				● UTY-RVNYM													
			● UTY-RNNYM+ UTY-TWBXF		● UTY-RNNYM+ UTY-XCBXZ2	● UTY-RNNYM	● UTY-RNNYM+ UTY-XWNX	● UTY-RNNYM				● UTY-RNNYM													
	Simple Remote Controller	  2-wire type 3-wire type	● UTY-RSNYM+ UTY-TWBXF		● UTY-RSNYM+ UTY-XCBXZ2	● UTY-RSNYM	● UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-TWRX	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM		● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM				● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM			
	Central Remote Controller																							● UTY-DMMYM	
	Wireless Remote Controller																			● UTY-LNTY					
	IR Receiver Unit with Wireless Remote Controller	  For Duct For Cassette								● UTY-LRHYA2		● UTY-LRHYM		● UTY-LRHYM	● UTY-LRHYM (60)	● UTY-LRHYM						● UTY-LRHYM			
		   For Duct For Cassette For Ceiling							● UTY-LBTYC		● UTY-LBTYM		● UTY-LBTYM			● UTY-LBTYM					● UTY-LBTYM				
Interface	MODBUS Convertor						● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX			● UTY-VMSX					● UTY-VMSX				
	MODBUS Interface		● FJ-RC-MBS-1+ UTY-TWBXF		● FJ-RC-MBS-1+ UTY-XCBXZ2	● FJ-RC-MBS-1	● FJ-RC-MBS-1+ UTY-XWNX	● FJ-RC-MBS-1				● FJ-RC-MBS-1													
	KNX Convertor						● UTY-VKSX		● UTY-VKSX		● UTY-VKSX		● UTY-VKSX			● UTY-VKSX					● UTY-VKSX				
	KNX Interface		● FJ-RC-KNX-1i+ UTY-TWBXF		● FJ-RC-KNX-1i+ UTY-XCBXZ2	● FJ-RC-KNX-1i	● FJ-RC-KNX-1i+ UTY-XWNX	● FJ-RC-KNX-1i				● FJ-RC-KNX-1i													
	Wireless LAN Interface		● UTY-TFNXZ1+ UTY-TWBXF		● UTY-TFNXZ1+ UTY-XCBXZ2	● UTY-TFNXZ1	● UTY-TFNXZ1+ UTY-XWNX	● UTY-TFNXZ1			● UTY-TFSXZ1	● UTY-TFNXZ1				● UTY-TFSXZ1	● UTY-TFNXZ1				● UTY-TFSXZ1	● UTY-TFNXZ1	● UTY-TFNXZ1		
																									
			● FJ-RC-WIFI-1+ UTY-TWBXF		● FJ-RC-WIFI-1+ UTY-XCBXZ2	● FJ-RC-WIFI-1	● FJ-RC-WIFI-1+ UTY-XWNX	● FJ-RC-WIFI-1				● FJ-RC-WIFI-1													
	External Switch Controller		● UTY-TERX+ UTY-TWBXF		● UTY-TERX+ UTY-XCBXZ2	● UTY-TERX	● UTY-TERX+ UTY-TWRX/ UTY-XWNX	● UTY-TERX				● UTY-TERX													
	Network Convertor for Single Split	  DC Power Supply Type AC Power Supply Type	● UTY-VTGX+UTY-TWBXF or UTY-VTGXV+UTY-TWBXF		● UTY-VTGX+ UTY-XCBXZ2 or UTY-VTGXV+ UTY-XCBXZ2	● UTY-VTGX UTY-VTGXV	● UTY-VTGX+ UTY-TWRX / UTY-XWNX or UTY-VTGXV+ UTY-TWRX / UTY-XWNX	● UTY-VTGX UTY-VTGXV				● UTY-VTGX UTY-VTGXV													

*There are no optional parts for LLC series.

Controller System List (available) For VRF

Controller Options:

Type		Refrigerant	Indoor unit													Indoor unit												
			Cassette						Duct							Duct			Floor		Ceiling/ Floor	Ceiling	Wall Mounted					
			3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure			High Static Pressure			–	EEV external			–	EEV external	–	EEV external	–	–
					4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency		Normal		High Efficiency										
		R410A	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 45/60GATH	ARXC 036/072/ 090/096 GTEH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 GTEH	ASYE 004/007/009 GTEH	ASYA 012/014GCEH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH
Controllers	Wired Remote Controller		● UTY-RNRYZ3													● UTY-RNRYZ3												
			● UTY-RLRY													● UTY-RLRY												
			● UTY-RCRYZ1													● UTY-RCRYZ1												
	Simple Remote Controller	 2-wire type  3-wire type	● UTY-RSRY UTY-RHRY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY		● UTY-RSRY UTY-RHRY			● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY								● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY
	Wireless Remote Controller		● UTY-LNHY													● UTY-LNHY												
	Central Remote Controller		● UTY-DCGYZ1													● UTY-DCGYZ1												
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1													● UTY-APGXZ1, UTY-ALGXZ1												
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX													● UTY-ABGXZ1, UTY-VBGX												
	Network Convertor for LonWorks		● UTY-VLGX													● UTY-VLGX												
	MODBUS Convertor		● UTY-VMSX				● UTY-VMSX				● UTY-VMSX		● UTY-VMSX				● UTY-VMSX		● UTY-VMSX									● UTY-VMSX
	MODBUS Convertor		● UTY-VMGX													● UTY-VMGX												
	KNX Convertor		● UTY-VKSX				● UTY-VKSX				● UTY-VKSX		● UTY-VKSX				● UTY-VKSX		● UTY-VKSX									● UTY-VKSX
	KNX Convertor		● UTY-VKGX													● UTY-VKGX												
	Wireless LAN Interface		● UTY-TFSXZ1				● UTY-TFSXZ1				● UTY-TFSXZ1		● UTY-TFSXZ1				● UTY-TFSXZ1		● UTY-TFSXZ1									● UTY-TFSXZ1
	External Switch Controller		● UTY-TERX													● UTY-TERX												

Optional Parts Overview

For Split & Multi-split, VRF

Various optional parts are provided to install the selected indoor unit properly according to the environment.

Optional Parts

For Cassette

Human Sensor Kit

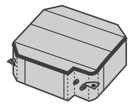
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

Cassette Grille

Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.

Fresh Air Intake Kit

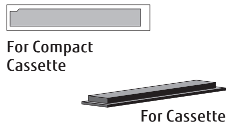
Fresh air can be taken in by a fan which can be connected using external control unit.



Insulation for High Humidity

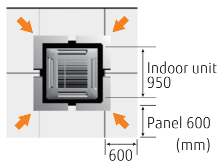
For Compact Cassette type/ Cassette type

Insulation for High Humidity is used when the installation location is in the high humidity environment.



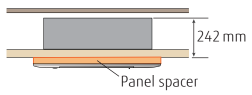
Air Outlet Shutter Plate

According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.



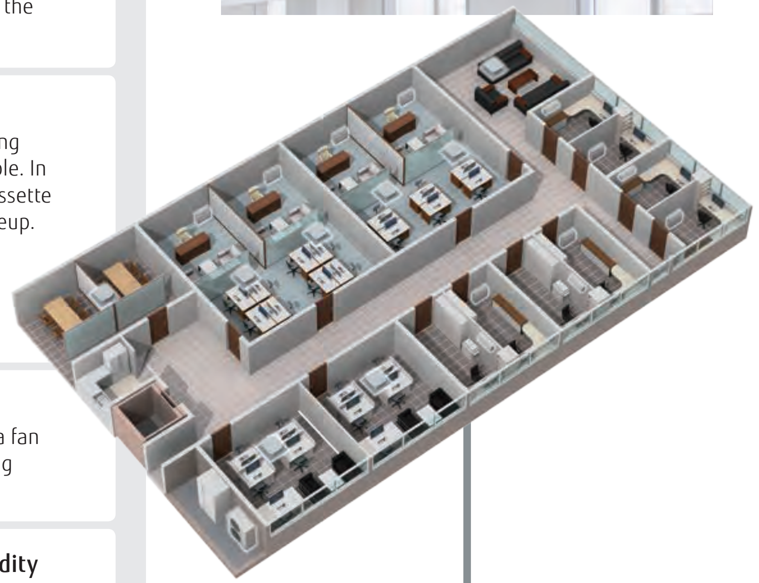
Wide Panel

When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.



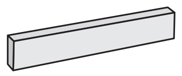
Panel Spacer

When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration



Optional Parts

For Floor



Half Concealed Kit

This kit is used to half conceal floor type indoor unit into the wall.

Optional Parts

For Duct & Ceiling

Auto Louver Grille Kit

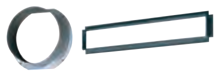
Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior

Remote Sensor Unit

New amenity space can be offered by installing the Remote sensor.

Long Life Filter

Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.



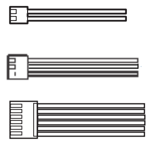
Flange

Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.

Drain Pump Unit

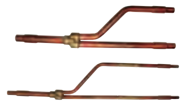
This device can drain the collected water during operation.

Connection Parts



External Connect Kit & Set

These wires can connect between the product PCB and external device.

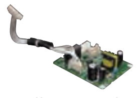


Connection Units

Connection units are provided to separate the pipes at the connection of multiple indoor units in multi-split type or VRF system.

External Power Supply Unit

External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

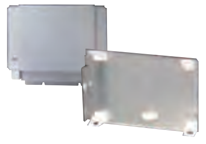


Communication Kit

For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.

External Input and Output PCB

For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.



External Input and Output PCB Box & Bracket

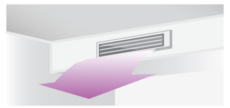
These are the box and bracket for installing the External input and output PCB

Auto Louver Grille Kit

UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

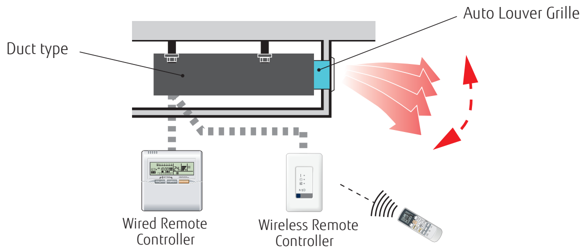
Closed louver



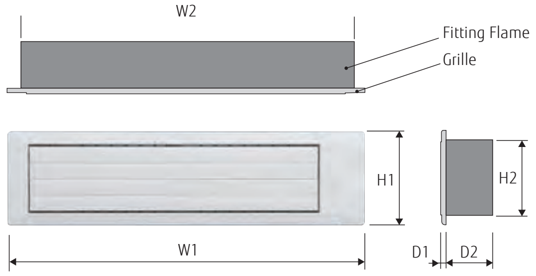
Opened louver

Flexible Control

- **Operation with indoor unit**
  Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable
- **Auto-closing louver**
  When operation of indoor unit is stopped, the louver will automatically close.



Dimensions



Unit:mm

Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845				
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louver Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		

External Power Supply Unit

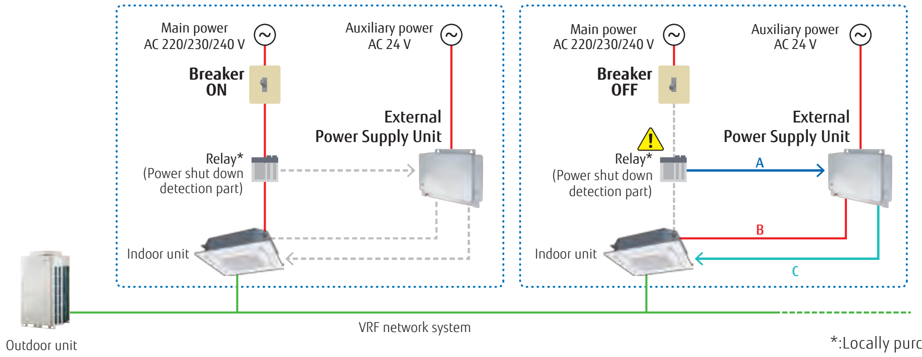
UTZ-GXXA

External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error.

High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from External Power Supply Unit is notified.



*:Locally purchased

Note

- When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS 2.
- Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

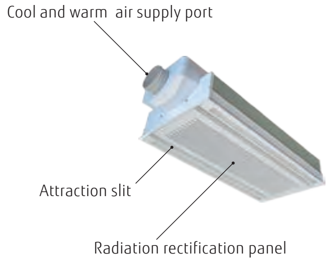
Specifications

Model name	UTZ-GXXA
Power Supply	AC 24 V 50/60 Hz, single phase
Dimensions (H × W × D) (mm)	65 × 186 × 178
Weight (g)	500

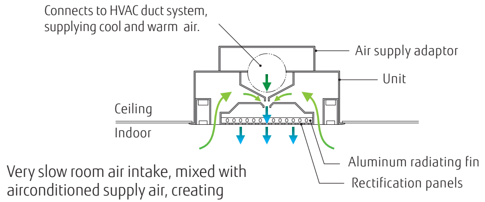
AIR BEAM
Radiation Air Outlet Unit

*Production by order
Please get in touch with us for more details.

Key component



Cross-section view

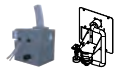
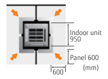
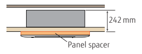
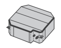
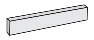
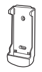


Very slow room air intake, mixed with airconditioned supply air, creating extreemly comfortable Airflow.

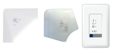
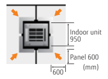
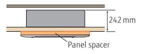
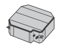
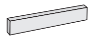
Built-in aluminum radiation fin and rectification panels which are helping to disperse and rectify the air current.

Airflow rate (m^3/h)	180 (160-215)	270 (240-325)
Grid	600 x 2	600 x 3
AIR BEAM For system ceiling (Integrated type)	 KS-180	 KS-270

Optional Parts List For Split/Multi-split

Type	Refrigerant	Indoor unit										Indoor unit									
		Cassette			Duct						Duct	Floor	Ceiling		Wall Mounted		Multi-split				
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim		Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Big						Wall Mounted	4-way flow Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling
	R32	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB			ARXG 09/12/14/18 KLLAP		ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG45/54KHTA			ABYG 18/22/24/30/36/45/54 KRTA		ASYG 07/09/12 KPCA			AUYG07KVLA	ARYG 07/09/12 KSLAP	ARYG07KLLAP	
	R410A	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUYG30/36LRLE, AUYG 36/45/54 LRLA	ARYG12/14/18LSLAP		ARYG12/14/18LLTB	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG30/36LMLE	ARYG45/54/60LHTA	ARYG72/90LHTA	AGYG 09/12/14 LVCA		ABYG30/36LRTE, ABYG 36/45/54 LRTA		ASYG 07/09/12 LLCE	ASYG14KMCC	AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA
Human Sensor Kit			● UTY-SHZXC																		
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.				● UTY-XSZX						● UTY-XSZX								● UTY-XSZX		
Cassette Grille	 UTG-UFYF-W  UTG-UKYA-W  UTG-UFYD-W  UTG-UKYC-W  UTG-UGYA-W  UTG-UKYA-B	● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA,LVLB)	● UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B	● UTG-UGYA-W														● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA)			
Auto Louver Grille Kit					● UTD-GXTA-W (09/12/14) UTD-GXTB-W (18)		● UTD-GXSA-W (12/14) UTD-GXSB-W (18) UTD-GXTA-W (12/14) UTD-GXTB-W (18)												● UTD-GXTA-W (07/09/12)		
Long Life Filter								● UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14)	● UTD-LF25NA	● UTD-LF60KA (45/54)	● UTD-LFKA										
Flange									● UTD-SF045T UTD-RF204					● UTD-RF204							
Drain Pump Unit									● UTZ-PX1NBA		● UTZ-PX1NAB		● UTR-DPB24T								
Wide Panel			● UTG-AKXA-W	● UTG-AGYA-W																	
Panel Spacer			● UTG-BKXA-W	● UTG-BGYA-W																	
Fresh Air Intake Kit	 For Compact Cassette  For Cassette	● UTZ-VXAA	● UTZ-VXRA	● UTZ-VXGA														● UTZ-VXAA			
Air Outlet Shutter Plate	 For Compact Cassette  For Cassette	● UTR-YDZB	● UTR-YDZK	● UTR-YDZC														● UTR-YDZB			
Insulation for High Humidity	 For Compact Cassette type/ Cassette type	● UTZ-KXGC	● UTZ-KXRA	● UTZ-KXGA														● UTZ-KXGC			
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.											● UTR-STA									
L-type Piping Kit													● UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54)								
Remote Controller Holder															● UTZ-RXLA						
Adapter																	● Adapter H				

Optional Parts List For VRF

Type	Refrigerant	Indoor unit										Indoor unit													
		Cassette						Duct				Duct						Floor		Floor / Ceiling	Ceiling	Wall Mounted			
		3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure			High Static Pressure			–	EEV external			–	EEV external	–	–
				4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency		Normal		High Efficiency								
	R410A	AUXS 018/024GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024GTAH	ARXP 024/030GTAH	ARXC 45/60GATH	ARXC 036/072/ 090/096 GTEH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 GTEH, ASYA 012/014GCEH	ASYE 004/007/009 GTEH, ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH
IR Receiver Unit		● UTY-TRHX		● UTY-LRHYB1		● UTY-LBHXD		● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC			● UTY-TRHX	● UTB-YWC								
Human Sensor Kit						● UTY-SHZXC																			
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.							● UTY-XSZX				● UTY-XSZX													
Cassette Grille	 UTG-USYA-W UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W UTG-UKYA-B UTG-UGYA-W	● UTG-USYA-W	● UTG-UFYE-W UTG-UFYC-W	● UTG-UGYA-W		● UTG-UKYC-W UTG-UKYA-B																			
Auto Louver Grille Kit								● UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)			● UTD-GXTC-W (009/012/014)														
Long Life Filter											● UTD-LF25NA (018)	● UTD-LF25NA		● UTD-LFNA	● UTD-LF60KA (45/60/036)										
Flange											● UTD-SF045T (018) UTD-RF204 (018)	● UTD-SF045T UTD-RF204									● UTD-RF204				
Drain Pump Unit											● UTZ-PX1NBA (018)	● UTZ-PX1NBA									● UTR-DPB24T				
Wide Panel				● UTG-AGYA-W		● UTG-AKXA-W																			
Panel Spacer				● UTG-BGYA-W		● UTG-BKXA-W																			
Fresh Air Intake Kit*1	 For Compact Cassette For Cassette		● UTZ-VXAA	● UTZ-VXGA		● UTZ-VXRA																			
Air Outlet Shutter Plate	 For Compact Cassette For Cassette		● UTR-YDZB	● UTR-YDZC		● UTR-YDZK																			
Insulation for High Humidity	 For Compact Cassette type/ Cassette type		● UTZ-KXGC	● UTZ-KXGB	● UTZ-KXGA	● UTZ-KXRA																			
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.																	● UTR-STA							
External Power Supply Unit		● UTZ-GXXA				● UTZ-GXXA				● UTZ-GXXA		● UTZ-GXXA				● UTZ-GXXA		● UTZ-GXXA							● UTZ-GXXA

Function List For Split/Multi-split

External Input and Output Function/External Connect Kit/Communication Kit

Type		Indoor unit													
		Wall Mounted													
	Refrigerant	Flagship Series	Designer Series		Standard Series			ECO Series		Designer Series		Standard Series			ECO Series
	R32	ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTA	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	ASYG 18/24KLCA						
	R410A									ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE
Input	Operation/Stop		● UTY-XCSXZ2+UTY-XWZX	● UTY-TWRXZ2+UTY-XWZXZ5	● UTY-TWBXF2+UTY-XWZXZ5	● UTY-XCSXZ2+UTY-XWZXZ5				● UTY-XWZXZ5+UTY-TWBXF2		● UTY-XWZXZ5+UTY-XCBXZ2	● UTY-XWZX	●UTY-XWZX or ●○ UTY-XWZX+UTY-XCSXZ2 + UTZ-GXXB	
	Batch Stop														
	Forced Stop		● UTY-XCSXZ2+UTY-XWZX	● UTY-TWRXZ2+UTY-XWZXZ5	● UTY-TWBXF2+UTY-XWZXZ5	● UTY-XCSXZ2+UTY-XWZXZ5				● UTY-XWZXZ5+UTY-TWBXF2		● UTY-XWZXZ5+UTY-XCBXZ2	● UTY-XWZX	● UTY-XWZX or ●○ UTY-XWZX+UTY-XCSXZ2+UTZ-GXXB	
	Emergency Stop														
	Forced Thermostat off		● UTY-XCSXZ2+UTY-XWZX			● UTY-XCSXZ2+UTY-XWZXZ5								●○ UTY-XWZX+UTY-XCSXZ2+UTZ-GXXB	
	Low Noise Mode Operation														
	Cooling / Heating Priority														
	Outdoor Unit Operation Peak Control														
Output	Operation Status		● UTY-XCSXZ2+UTY-XWZX	● UTY-XCSXZ2+UTY-XWZXZ5	● UTY-TWBXF2+UTY-XWZXZ5	● UTY-XCSXZ2+UTY-XWZXZ5				○ UTY-XWZXZ5 + UTY-TWBXF2		○ UTY-XWZXZ5+UTY-XCBXZ2	○ UTY-XWZX	● UTY-XWZX ● UTY-XWZX+UTY-XCSXZ2+UTZ-GXXB	
	Error Status		● UTY-XCSXZ2+UTY-XWZX	● UTY-XCSXZ2+UTY-XWZXZ5	● UTY-TWBXF2+UTY-XWZXZ5	● UTY-XCSXZ2+UTY-XWZXZ5				○ UTY-XWZXZ5 + UTY-TWBXF2		○ UTY-XWZXZ5+UTY-XCBXZ2		● UTY-XWZX ● UTY-XWZX+UTY-XCSXZ2+UTZ-GXXB	
	Compressor status		● UTY-XCSXZ2+UTY-XWZX												
	Indoor Unit Fun Operation Status		● UTY-XCSXZ2+UTY-XWZX	● UTY-XCSXZ2+UTY-XWZXZ5		● UTY-XCSXZ2+UTY-XWZXZ5								● UTY-XWZX ● UTY-XWZX+UTY-XCSXZ2 + UTZ-GXXB	
	Set point attainment status													● UTY-XWZX*2	
	Auxiliary Heater Output														
	Base Heater														

Type		Indoor unit														
		Cassette					Duct									
	Refrigerant	Compact 4-way Flow Series		Circular Flow Series		4-way Flow Series	Mini	Slim		Medium Static Pressure (Compact & Comfort)		Medium Static Pressure (Standard)		High Static Pressure		Big
	R32	AUXG 09/12/14/18/22/24 KVLA		AUXG 18/22/24/30/36/45/54KRLB				ARXG 09/12/14/18KLLAP		ARXG 12/14/18/22/24/30/36/45/54 KHTAP		ARXG 22/24/30/36/45 KMLA		ARXG 45/54 KHTA		
	R410A		AUYG 12/14/18 LVLB, AUYG24LVLA		AUXG 18/24/30/36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP		ARYG 12/14/18 LLTB		ARYG 12/14/18/24/30/36/45/54 LHTBP		ARYG 24/36/45 LMLA, ARYG 36LMLE		ARYG 45/54/60 LHTA	ARYG 72/90LHTA
Input	Operation/Stop	● PCB Terminal or ●○ UTY-XCSX+UTZ-GXRA	● UTY-XWZX	● PCB Terminal or ●○ UTY-XCSX+UTZ-GXRA		● UTY-XWZX	● PCB Terminal		● UTD-ECS5A	● PCB Terminal or ●○ UTY-XCSX+UTZ-GXNA		● PCB Terminal	● UTD-ECS5A			● PCB Terminal or ●○ UTY-XCSX
	Batch Stop															
	Forced Stop	● PCB Terminal	● UTY-XWZX	● PCB Terminal		● UTY-XWZX	● PCB Terminal		● UTD-ECS5A	● PCB Terminal			● UTD-ECS5A			● PCB Terminal
	Emergency Stop															
	Forced Thermostat off	●○ UTY-XCSX +UTZ-GXRA		●○ UTY-XCSX +UTZ-GXRA						● UTY-XCSX				● UTD-ECS5A		● UTY-XCSX
	Low Noise Mode Operation															
	Cooling / Heating Priority															
	Outdoor Unit Operation Peak Control															
Output	Operation Status	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA	○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		○ UTY-XWZX	● UTY-XWZXZG		○ UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	○ UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX
	Error Status	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA						● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA						
	Compressor status															
	Indoor Unit Fun Operation Status	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA	● UTZ-VXAA*1	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTZ-VXRA*1	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	● UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX
	Set point attainment status															
	Auxiliary Heater Output	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA			● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	● UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX
	Base Heater															

Type		Indoor unit				Multi-split				Outdoor unit						
													Single Phase			
	Refrigerant	Floor	Floor/Ceiling		Ceiling	Mini Duct	Slim Duct		Compact Cassette	Single Split			8-unit multi-split	Simultaneous Multi		
	R32		ABYG 18/22/24/30/36/45/54 KRTA			ARXG 07/09/12/14 KSLAP	ARXG 07KLLAP		AUXG 07KVLA	AOYG 30/36/45/54 KBTB, AOYG 36/45/54 KRTA				AOYG 36/45/54 KBTB, AOYG 36/45/54 KRTA		
	R410A	AGYG 09/12/14 LVCA		ABYG 18LVTB, ABYG 24LVTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	ARYG 07/09LSLAP		ARYG 07/09LLTA	AUYG 07/09LVLA		AOYG 36/45/54/60 LATT	AOYG 45/54LBTA, AOYG 72/90LRLA	AOYG 45LBT8		AOYG 36/45LBTB	AOYG 36/45/54 LATT
Input	Operation/Stop	● UTY-XWZX	● PCB Terminal or ●○ UTY-XCSX+UTZ-GXEA	● UTY-XWZX		● PCB Terminal		● UTD-ECS5A	● PCB Terminal							
	Batch Stop												● UTY-XWZXZ3			
	Forced Stop	● UTY-XWZX	● PCB Terminal	● UTY-XWZX		● PCB Terminal		● UTD-ECS5A	● PCB Terminal							
	Emergency Stop												● UTY-XWZXZ3			
	Forced Thermostat off		● UTY-XCSX+UTZ-GXEA													
	Low Noise Mode Operation									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3				○ UTY-XWZXZ2
	Cooling / Heating Priority												● UTY-XWZXZ3			
	Outdoor Unit Operation Peak Control									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3				○ UTY-XWZXZ2
Output	Operation Status	○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	○ UTY-XWZX		● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG							
	Error Status		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA							● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3			○ UTY-XWZXZ2
	Compressor status									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3			○ UTY-XWZXZ2
	Indoor Unit Fun Operation Status		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA		● UTD-ECS5A	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG							
	Set point attainment status															
	Auxiliary Heater Output		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA			● UTY-XWZXZG										
	Base Heater												● UTY-XWZXZ4			

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) *2: This function is for installing at server room.

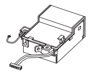
●: Dry Contact ○: Apply Voltage

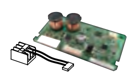
For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

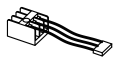
Communication Kit


UTY-TWBXF2


UTY-TWRXZ2


UTY-XCBXZ2


UTY-TWRX

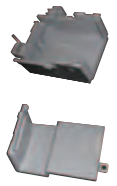

UTY-XWNX

External input and output PCB


UTY-XCSXZ2
for Wall Mounted type


UTY-XCSX
for Duct and Cassette type

External input and output PCB Box


UTZ-GXXB


UTZ-GXRA

External input and output PCB Bracket

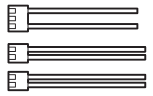

UTZ-GXNA

Communication system

External Connect Kit

For Indoor Unit


UTY-XWZX


UTY-XWZXZ5


UTY-XWZXZG

For Outdoor Unit

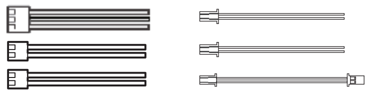

UTY-XWZXZ2


UTY-XWZXZ3


UTY-XWZXZ4

External Control Set

For Indoor unit


UTD-ECS5A

Function List For VRF

External Input and Output Function/External Connect Kit

	Type	Refrigerant	Indoor unit														Indoor unit								Outdoor unit						Controller	Other
			Cassette						Duct								Floor		Floor / Ceiling		Wall Mounted				J-IVL	J-IV	J-IVS	V-III	V-III Tropical	VR-IV	Central Remote Controller	RB Unit
			3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure			Medium Static Pressure			High Static Pressure		-	EEV external			-	EEV external	-									
					4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)	Slim High Efficiency	Normal	High Efficiency		Normal	High Efficiency																
		R410A	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 007/009/012/ 014/018/024 GLEH, ARXD 04GALH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/090/ 096GTEH, ARXC 45/60GATH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASYA 004/007/009 GTEH, ASYA 012/014GCEH	ASYE 004/007/009 GTEH, ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH	AJY 072/090/108/ 126/144/162 LELBH	AJY 040/045/054 LBLBH, AJY 040/045/054 LELBH	AJY 040/045/054 LCLBH	AJY 072/090/108/ 126/144/162 LALBH	AJY 072/090/108/ 126/144/162 LNLBH	AJY 072/090/108/ 126/144 GALBH	UTY-DCGYZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH
Input	Operation / Stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB															
Input	All On / All Off																														●UTY-XWZXZ7 ○UTY-XWZXZ8	
Input	Batch Stop																								● UTY-XWZXZ6							
Input	Forced Stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB															
Input	Emergency Stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB								● UTY-XWZXZ6						●UTY-XWZXZ7 ○UTY-XWZXZ8	
Input	Forced Thermostat off		● UTY-XWZXZE ○ UTY-XWZXZ7														● UTY-XWZXZE ○ UTY-XWZXZ7															
Input	Low Noise Mode Operation																								● UTY-XWZXZ6							
Input	Cooling/ Heating Priority																								● UTY-XWZXZ6							●UTY-XWZXZ6 ○UTY-XWZXZB
Input	Outdoor Unit Operation Peak Control																								● UTY-XWZXZ6							
Input	Power Usage Information from Electricity Meter																								● UTY-XWZXZF							
Output	Operation Status		● UTY-XWZXZC														● UTY-XWZXZC								○ UTY-XWZXZ6						○UTY-XWZXZA	
Output	Error Status		● UTY-XWZXZC														● UTY-XWZXZC								○ UTY-XWZXZ6						○UTY-XWZXZA	
Output	Indoor Unit Fun Operation Status		● UTY-XWZXZC														● UTY-XWZXZC															
Output	Auxiliary Heater Output								● UTY-XWZXZC			● UTY-XWZXZC			● UTY-XWZXZC																	
Output	Base Heater																								● UTY-XWZXZ9			● UTY-XWZXZ9				

*2: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

Communication system

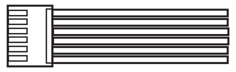
External Connect Kit

For Indoor unit

UTY-XWZXZ7

UTY-XWZXZB

UTY-XWZXZC



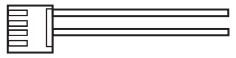
UTY-XWZXZD

UTY-XWZXZE

For Outdoor unit

UTY-XWZXZ6

UTY-XWZXZ9



UTY-XWZXZF

For RB unit

UTY-XWZXZ6

UTY-XWZXZB

For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8

UTY-XWZXZA

For Touch Panel Controller

UTY-XWZXZA

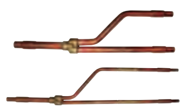
Separation Tube etc.

For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

Separation Tube

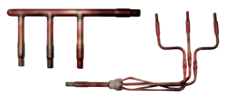
UTP-SX236A / UTP-SX254A
For 3 phase simultaneous multi-split

UTP-SX272A
For Simultaneous multi-split Twin / Triple / Double Twin

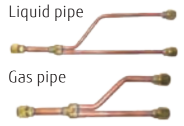


UTP-SX354A
For 3 phase simultaneous multi-split

UTP-SX372A
For Simultaneous multi-split Twin / Triple / Double Twin



UTP-SX248A
For 8-unit multi-split



Branch Box

UTP-PY03A
UTP-PY02A
For 8-unit multi-split

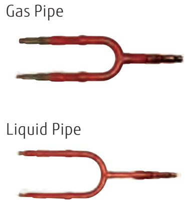
3 zones type

2 zones type

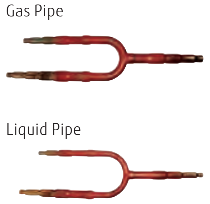
For VRF

Separation Tube

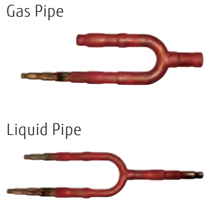
UTP-AX054A



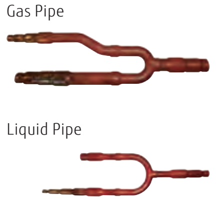
UTP-AX090A



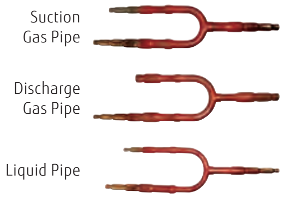
UTP-AX180A



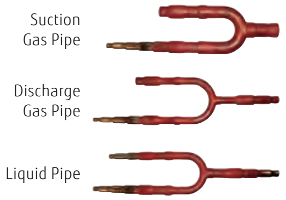
UTP-AX567A



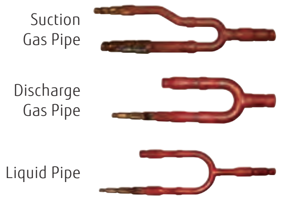
UTP-BX090A



UTP-BX180A



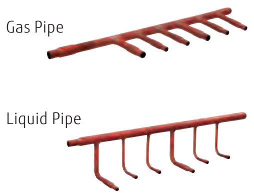
UTP-BX567A



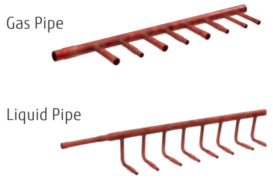
UTP-LX180A
For DX-Kit

Header

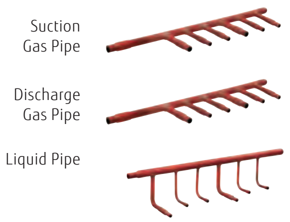
UTR-H0906L / UTR-H1806L



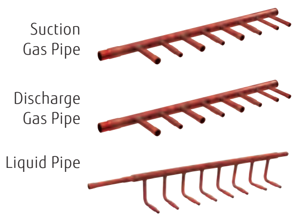
UTR-H0908L / UTR-H1808L



UTP-J0906A / UTP-J1806A

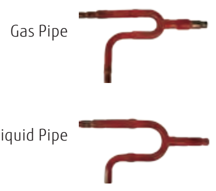


UTP-J0908A / UTP-J1808A

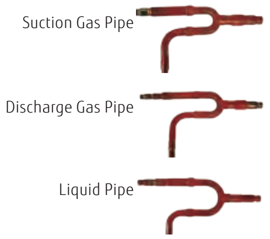


Outdoor Unit Branch Kit

UTP-CX567A



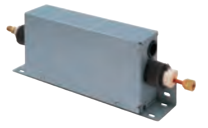
UTP-DX567A



For VRF

EV Kit

Model code ≦ 09 : UTR-EV09XB
Model code ≧ 12 : UTR-EV14XB
For Compact Wall Mounted type



RB Unit

UTP-RX01AH / UTP-RX01BH / UTP-RX01CH
Single type

UTP-RX04BH
Multi-split type

NEW UTP-RX08AH
Multi-split type

NEW UTP-RX12AH
Multi-split type

Specifications

Separation Tube

Model name	UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (kW)	19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more

Model name	UTP-BX090A	UTP-BX180A	UTP-BX567A
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more

Header

Model name			
Model name	3-6 Branches	UTR-H0906L	UTR-H1806L
	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Model name			
Model name	3-6 Branches	UTP-J0906A	UTP-J1806A
	3-8 Branches	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III/V-III Tropical)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
	3 outdoor units	2	

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE004GTEH ASYE007GTEH ASYE009GTEH	AGYE004GTEH AGYE007GTEH AGYE009GTEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Type		Single type			Multi-split type		
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	V/Ø/Hz	230/ 1 / 50					
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 56.1*[1]	Q ≦ 72.0	Q ≦ 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 18.0	Q ≦ 8.0	Q ≦ 8.0
Maximum number of connectable indoor units per branch		3	8	8	8	7	7
Dimensions (H×W×D)	mm	198×298×268			260×658×428	298×660×618	298×990×618

*1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0 kW.

Residential

AIR TO WATER

WATERSTAGE™

Innovative Solution of Domestic Heating

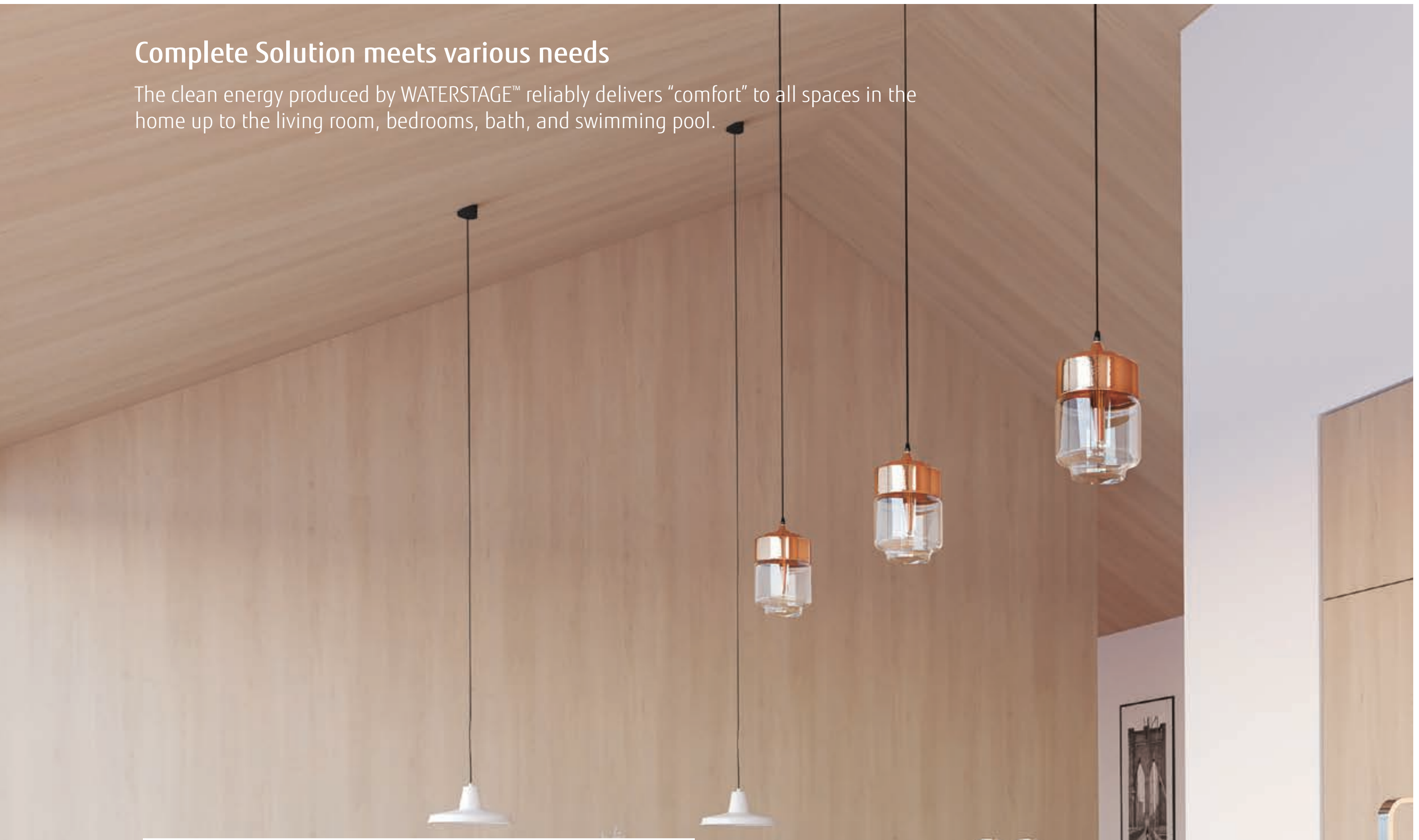
SPLIT TYPE / SPLIT DHW INTEGRATED TYPE

AIR TO WATER

Residential

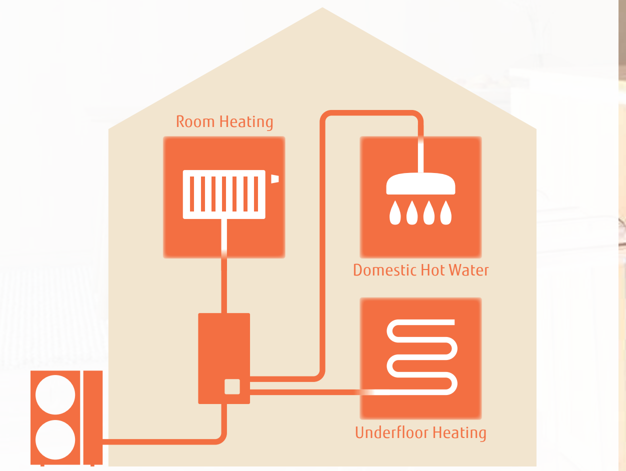
FUJITSU GENERAL LIMITED

WATERSTAGE™ Overview

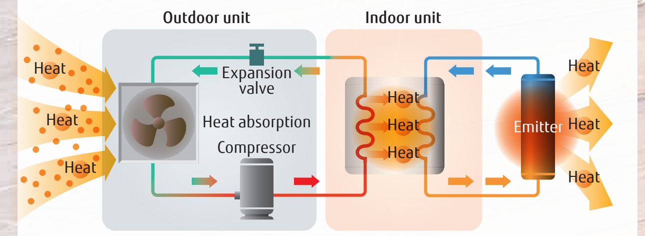


Complete Solution meets various needs

The clean energy produced by WATERSTAGE™ reliably delivers “comfort” to all spaces in the home up to the living room, bedrooms, bath, and swimming pool.



Heat Pump system framework



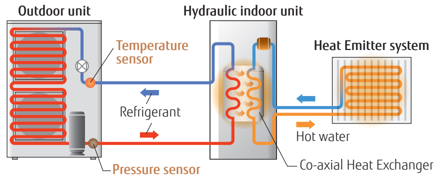
30 Models

Fujitsu General WATERSTAGE™ Heat Pumps are very efficient, regenerative and varied central heating systems, which absorb the energy mainly from the air.

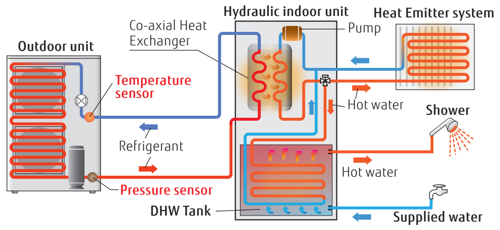
Optimization of refrigerant cycle operation

Super High Power and High Power model achieves high performance and efficiency by adopting twin sensors and control technology corresponding to hot water heating.

Split type

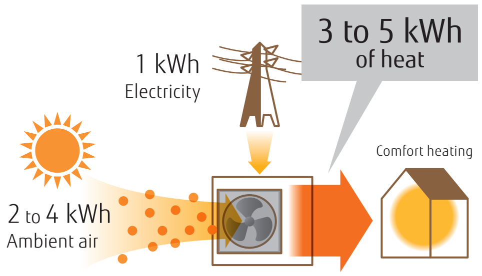


Split DHW Integrated type



What's a Heat Pump ?

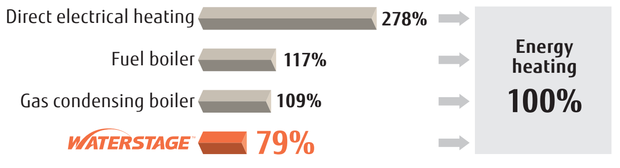
Absorbing free energy from the atmosphere. Heat Pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



Primary Energy Usage Reduced Drastically!

Proportion of primary energy into heating energy of 100%

Primary Energy Consumption*



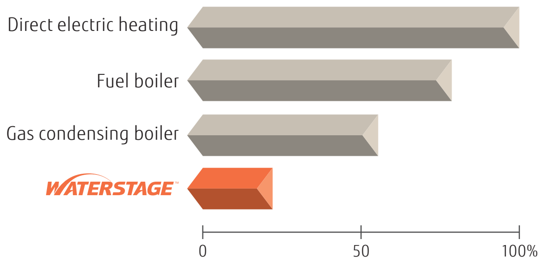
*Electricity loss is different due to power plant. Example efficiency of power plant: 36%

Benefits

Less
CO_2 Emissions

This environmentally-friendly system substantially reduces CO_2 emissions compared to conventional gas and hydro carbons combustion.

Average annual CO_2 emissions

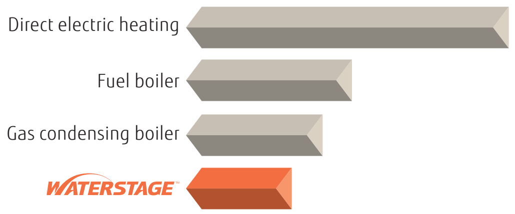


*Calculations based on data provided by European Program-2001` for EU 27
Fuel boiler efficiency: 89%, Gas boiler efficiency: 93%

Low
Running Cost

Running cost is low and economical by high efficiency heat pump technology.

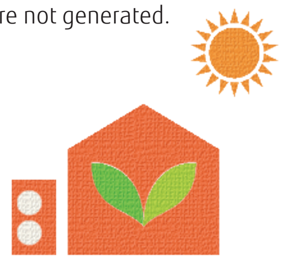
Average annual running cost



*The values may vary depending on installation, location, and operating conditions.

Clean
and Healthy

Since burners are unnecessary, NOx and other harmful substances are not generated.



Easy
Installation and Maintenance

All components are built into compact outdoor unit or hydraulic indoor unit.

No chimney sweep

No pollution

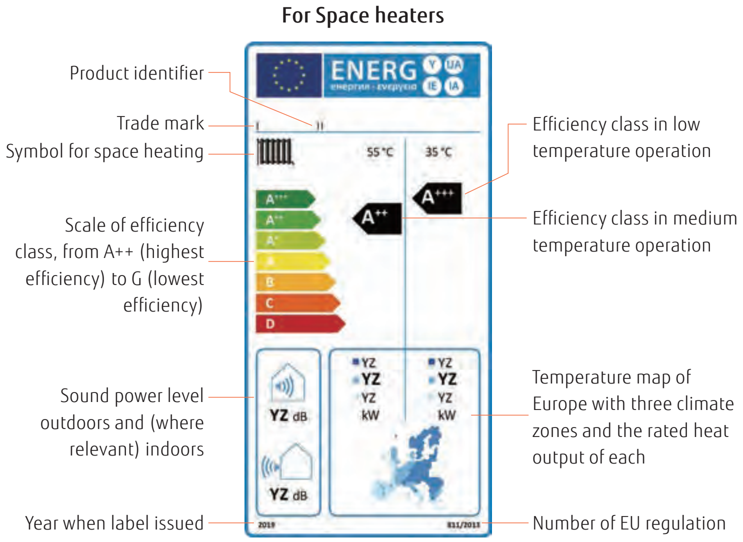
Low maintenance cost

Well structured Hydraulic indoor unit.
Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

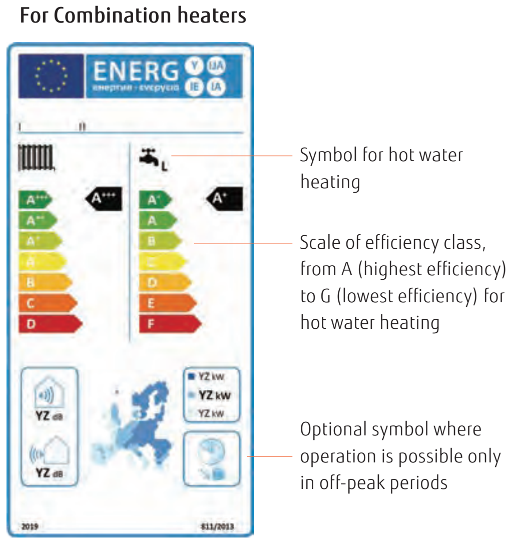
Energy Efficiency standard

Product labels

For Space heaters



For Combination heaters



The Ecodesign Directive Lot 1 Regulation 813/2013

New Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products (ErP) through design.
From 26 September 2015, the Ecodesign Directive will apply to space heaters(including heat pumps and fossil fuel boilers), combination heaters(for both space and water heating),water heaters and water storage tanks.
All these products will have to meet minimum requirements for energy efficiency[*1] and maximum sound power levels. The minimum energy efficiency level will be raised from 26 September 2017 and maximum sound power level will be lowered on 26 September 2018.

[*1] Energy efficiency is represented by seasonal space heating efficiency (ηs). This value is based upon the seasonal coefficient of performance(SCOP).

The Energy Labelling Directive (EU) No. 811/213

The energy label aims to help consumers make direct comparisons of energy use, as well as product specific features. On all labels, product identifier, efficiency class, sound power levels and heat output must be displayed. For heat generators, the scale runs from A+++ to D. There are two different product labels for space heaters and combination heaters.

Seasonal space heating
Energy efficiency class

	Except low temp HP 55℃	Low temp HP 35℃
A+++	ηs ≥ 150	ηs ≥ 175
A++	125 ≤ ηs < 150	150 ≤ ηs < 175
A+	98 ≤ ηs < 125	123 ≤ ηs < 150
A	90 ≤ ηs < 98	115 ≤ ηs < 123
B	82 ≤ ηs < 90	107 ≤ ηs < 115
C	75 ≤ ηs < 82	100 ≤ ηs < 107
D	36 ≤ ηs < 75	61 ≤ ηs < 100
E	34 ≤ ηs < 36	59 ≤ ηs < 61
F	30 ≤ ηs < 34	55 ≤ ηs < 59
G	ηs < 30	ηs < 55

EHPA Quality Label

Fujitsu General's WATERSTAGE[*2] have obtained the EHPA Quality Label[*3] by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label[*3] is a label that shows the end-consumer a quality heat pump unit on the market.

[*2] Only High Power 3 phase

[*3] Check the validity of label at www.ehpa.org/quality/quality-label/

SG-Ready Label

SG-Ready is a defined standard by BWP[*4], which makes it possible that the device can be integrated into a smart grid. Heat pumps, which are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps Series.

[*4] BWP = the Federal German Heat Pump Association

The CEN Heat Pump KEYMARK

The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market.
The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General's WATERSTAGE[*5] have obtained the KEYMARK[*6].

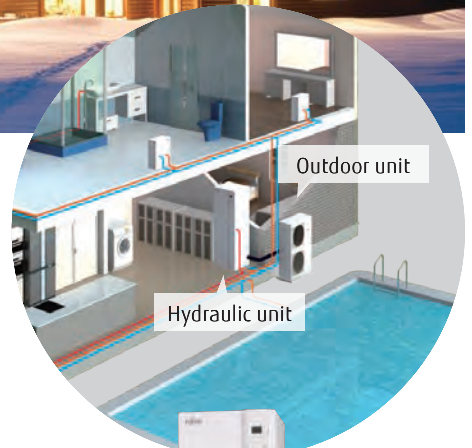
[*5] Only R32 comfort model

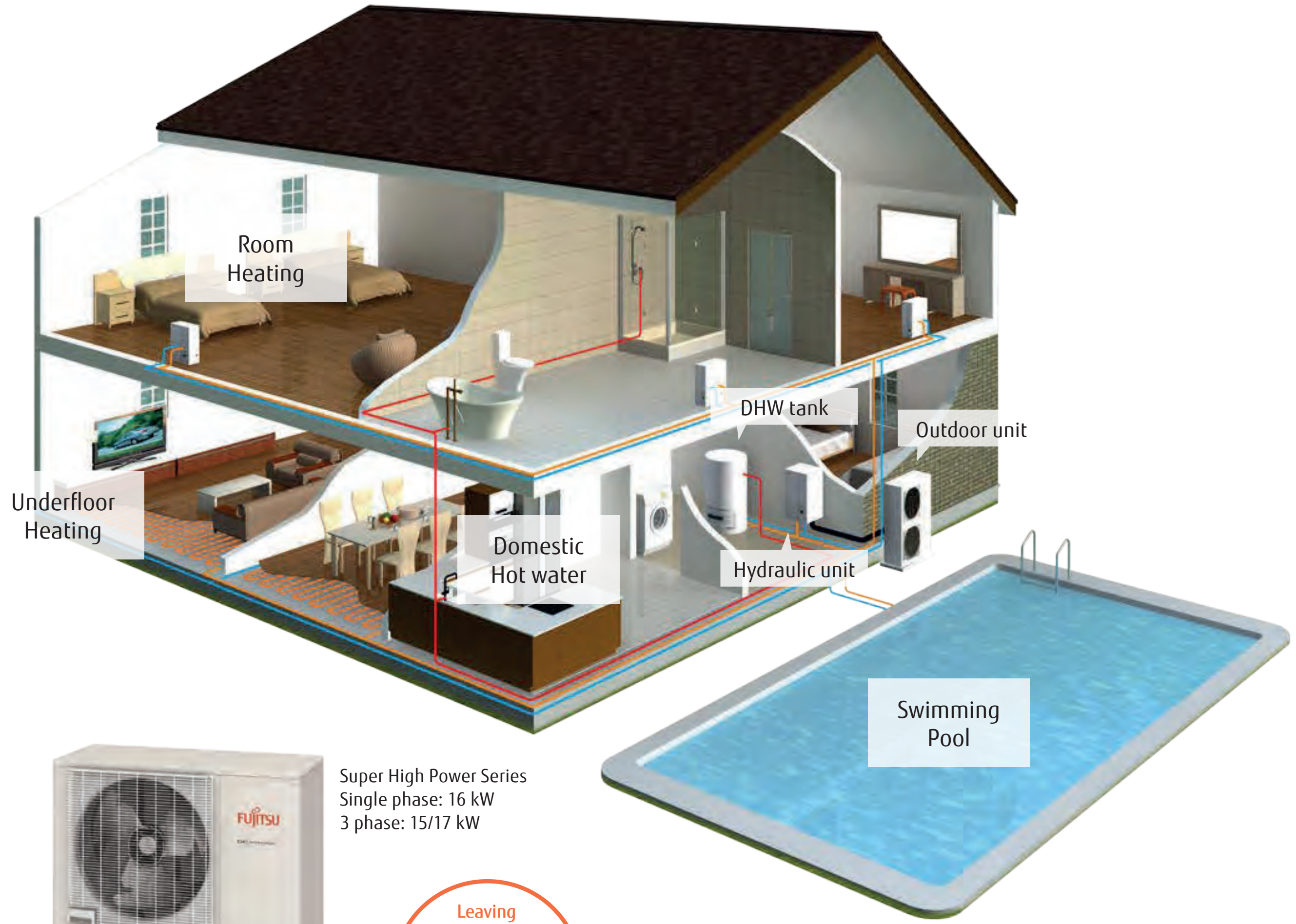
[*6] Check the validity of mark at www.heatpumpkeymark.com/about/

Home Heating

& Domestic Hot Water

Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series.





Super High Power Series
Single phase: 16 kW
3 phase: 15/17 kW

Leaving water temperature
60°C

High leaving water temperature

High leaving water temperature 60°C maintained even at -20°C outdoor temperature without using backup heater.

For Room heating & domestic hot water

Outdoor unit and hydraulic indoor unit can be installed freely, so installation is easy. Since hydraulic indoor unit is installed inside a house, freezing of circulated water can be prevented. A larger heating capacity can be performed flexibly by using more units in cascade connection.*1

*1: For High Power only

Appearance-oriented compact outdoor unit

Split type Comfort Series

For Comfort Series, optimized flow temperature control is achieved by DC inverter technology.

*2: Outdoor Unit: WOYA060LFCA/WOYA080LFCA

+ DHW Tank

DHW tank (option) can be used to supply hot water by connecting it to the system.

+ Boiler

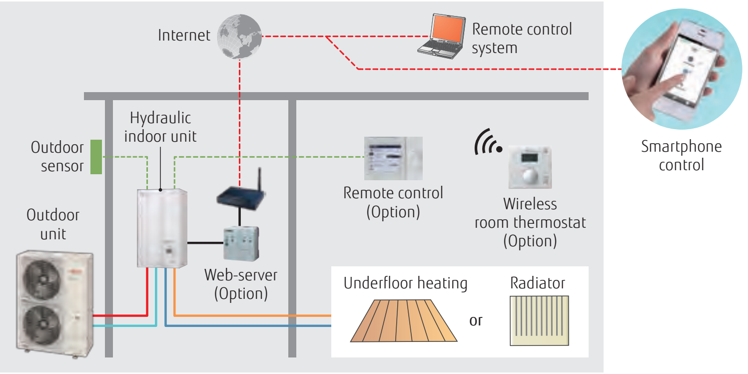
By combining existing boiler, powerful heating can be achieved even at low outdoor temperature.

*Optional parts necessary

Stylish space saving solution with built-in DHW tank

Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. Higher heating capacities can be achieved as there is the flexibility to use more units in a cascade type connection.



Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

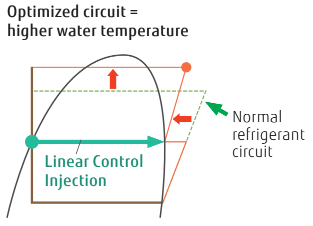
High Efficiency Technology

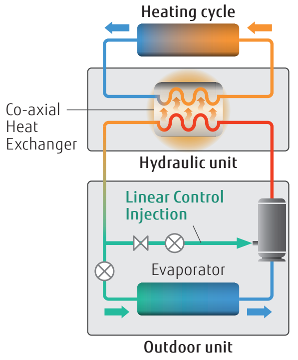
Twin Rotary Compressor

For Outdoor Unit

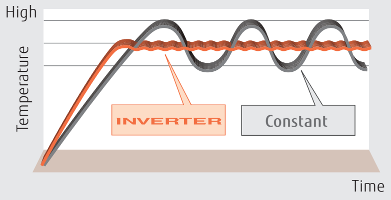
Twin Rotary Compressor with Linear Control Injection Port

The compressor achieves high condensing temperature without overheating the discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is achieved by controlling the injection amount according to the usage state.

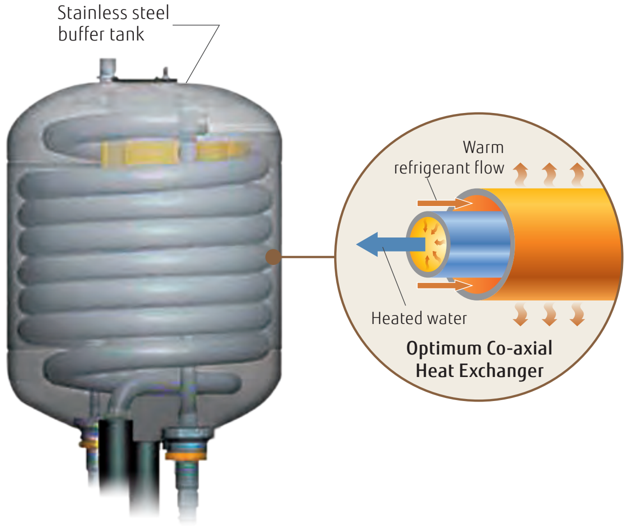




Accurate temperature control by DC inverter technology



High Durability Co-axial Heat Exchanger



For Hydraulic Indoor Unit

Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model. Energy saving performance is improved.

- Corrosion protected
- No flow switch necessary
- Anti-freeze-protection is unnecessary

Class A++ Pump

Energy saving pump with constant volume or pressure adjustment function.

A++

Energy efficiency class
WSYK170DJ9

WATERSTAGE™ Lineup

Type	Split type						Split DHW Integrated type					
	Super High Power Series		High Power Series		Comfort Series		Super High Power Series		High Power Series		Comfort Series	
Hydraulic indoor unit					NEW R32 						NEW R32 	
Outdoor unit					NEW R32 						NEW R32 	
Capacity range	15/16/17 kW		11/14 kW	11/14/16 kW	5/6 kW 8 kW	5/6/8 kW 10 kW	15/16/17 kW		11/14 kW	11/14/16 kW	5/6 kW 8 kW	5/6/8 kW 10 kW
System outline	• 60℃ hot water supply even at -20℃ outdoor temperature • 55℃ hot water supply even at -22℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.		• 60℃ hot water supply even at -20℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cascade connection up to three systems.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.		• 55℃ hot water supply even at -10℃ outdoor temperature • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.	• 55℃ hot water supply even at -10℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.	• 60℃ hot water supply even at -20℃ outdoor temperature • 55℃ hot water supply even at -22℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.		• 60℃ hot water supply even at -20℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.		• 55℃ hot water supply even at -10℃ outdoor temperature • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.	• 55℃ hot water supply even at -10℃ outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operation range is -25 to 35 °C.
Power source	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	Single Phase, 230 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	Single Phase, 230 V/50 Hz
Capacity 5 kW					WSYA050ML3 WOYA060KLT	WSYA050DG6 WOYA060LFCA					WGYA050ML3 WOYA060KLT	WGYA050DG6 WOYA060LFCA
Capacity 6 kW					WSYA080ML3 WOYA060KLT	WSYA100DG6 WOYA060LFCA					WGYA080ML3 WOYA060KLT	WGYA100DG6 WOYA060LFCA
Capacity 8 kW					WSYA080ML3 WOYA080KLT	WSYA100DG6 WOYA080LFCA					WGYA080ML3 WOYA080KLT	WGYA100DG6 WOYA080LFCA
Capacity 10 kW						WSYA100DG6 WOYA100LFTA						WGYA100DG6 WOYA100LFTA
Capacity 11 kW			WSYG140DG6 WOYG112LHT	WSYK160DG9 WOYK112LCTA					WGYG140DG6 WOYG112LHT	WGYK160DG9 WOYK112LCTA		
Capacity 14 kW			WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK140LCTA					WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK140LCTA		
Capacity 15 kW		WSYK170DJ9 WOYK150LJL						WGYK170DJ9 WOYK150LJL				
Capacity 16 kW	WSYG160DJ6 WOYG160LJL			WSYK160DG9 WOYK160LCTA			WGYG160DJ6 WOYG160LJL			WGYK160DG9 WOYK160LCTA		
Capacity 17 kW		WSYK170DJ9 WOYK170LJL						WGYK170DJ9 WOYK170LJ				

*Optional parts are required.

NEW

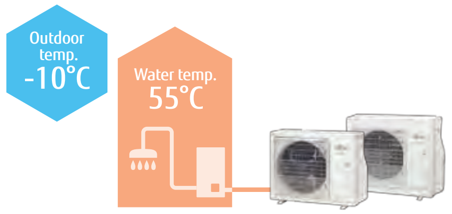
Split Type

Comfort Series

High Leaving Water Temperature

Maximum leaving water temperature is 55℃ without backup heater. Hot water supply temperature can be maintained even at -10℃ outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



Comfort Series

High COP

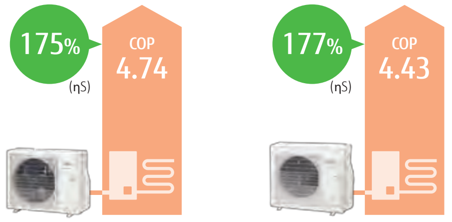
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class A+++*

*Temperature application : Heating Temp. 35℃.

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7℃ Heating Temp. 35℃.



Single phase 5kW class

Single phase 8kW class

Outdoor unit technology

5 - 6 kW

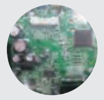
8 kW

DC Fan Motor

High performance, high efficiency small DC fan motor mounted.

DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WSYA050ML3 / WSYA080ML3
Outdoor unit:
WOYA060KLT / WOYA080KLT

Hydraulic indoor unit
Single phase

Outdoor unit
Single phase
5/6kW

Outdoor unit
Single phase
8kW

Specifications

Model Name		Hydraulic indoor unit		WSYA050ML3		WSYA080ML3		WSYA080ML3	
		Outdoor unit		WOYA060KLT		WOYA060KLT		WOYA080KLT	
Capacity range				5		6		8	
7℃/35℃ floor heating *1		Heating capacity	kW	4.50		5.50		7.50	
		Input power	kW	0.949		1.18		1.69	
		COP		4.74		4.65		4.43	
2℃/35℃ floor heating *1		Heating capacity	kW	4.50		5.30		6.30	
		Input power	kW	1.33		1.65		1.96	
		COP		3.39		3.22		3.21	
-7℃/35℃ floor heating*1		Heating capacity	kW	4.40		5.00		5.70	
		Input power	kW	1.59		1.90		2.13	
		COP		2.76		2.63		2.68	
Space heating characteristics*2									
Temperature application			℃	55	35	55	35	55	35
Energy efficiency class				A++	A+++	A++	A+++	A++	A+++
Rated heat output(P_{rated})			kW	5	5	5	6	6	7
Seasonal space heating energy efficiency(η_S)			%	125	175	125	175	128	177
Annual energy consumption			kWh	3,035	2,322	3,411	2,594	3,903	2,982
Sound power level*3	Hydraulic indoor unit		dB(A)	40	-	40	-	40	-
	Outdoor unit		dB(A)	57	-	57	-	60	-
Hydraulic indoor unit Specification									
Power source				Single phase 230 V 50 Hz					
Dimensions H×W×D			mm	847 x 450 x 493		847 x 450 x 493		847 x 450 x 493	
Weight (Net)			kg	41		41		41	
Water circulation		Min/Max	L/min	7.6/22.0		8.5/22.0		10.0/22.0	
Buffer tank capacity			L	16		16		16	
Expansion vessel capacity			L	8		8		8	
Leaving water temperature range		Max	℃	55		55		55	
Water pipe connection diameter		Flow/Return	mm	Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4	
Backup heater		Capacity	kW	3.0		3.0		3.0	
Outdoor unit specification									
Power source				Single phase 230 V 50 Hz					
Current		Max	A	13.0		13.0		18.0	
Dimensions H × W × D			mm	632 x 799 x 290		632 x 799 x 290		716 x 820 x 315	
Weight (Net)			kg	39		39		42	
Refrigerant		Type (Global Warming Potential)		R32(675)		R32(675)		R32(675)	
		Charge	kg	0.97		0.97		1.02	
Additional refrigerant charge amount			g/m	25		25		25	
Connection pipe	Diameter	Liquid	mm	6.35		6.35		6.35	
		Gas	mm	12.70		12.70		12.70	
	Length	Min/Max	m	3/30		3/30		3/30	
	Length(Pre-charge)		m	15		15		15	
	Height difference	Max	m	20		20		20	
Operation range		Heating	℃	-20 to 35		-20 to 35		-20 to 35	

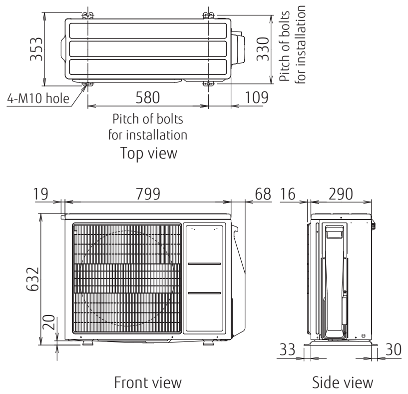
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

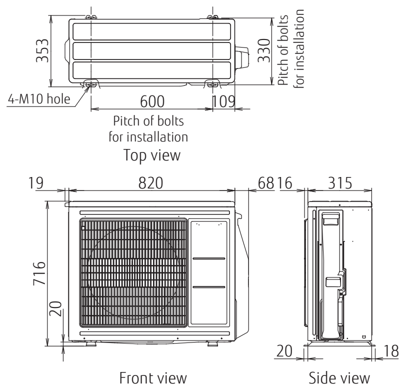
*3:The values of sound power level are besed on mesurement of EN12102 standard under conditions of EN14825 standard.

Dimensions

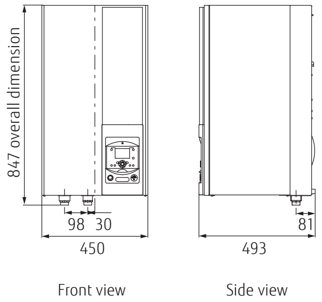
Outdoor Unit:
WOYA060KLT

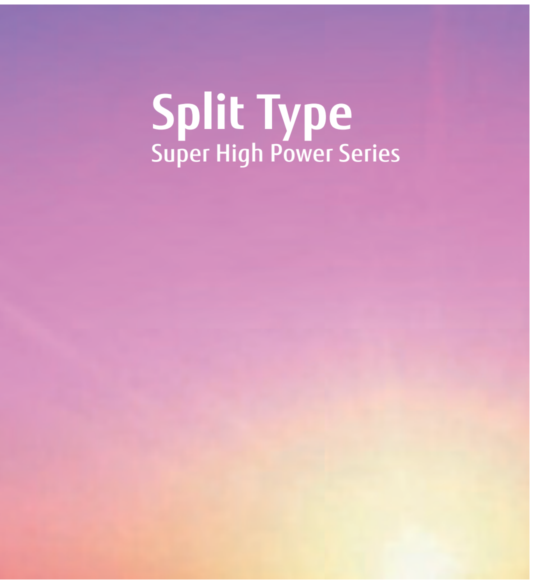


WOYA080KLT



Hydraulic Indoor Unit:
WSYA050ML3/WSYA080ML3





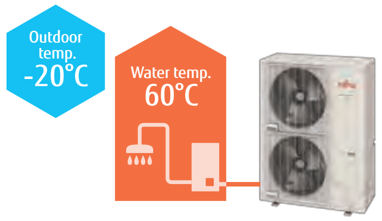
Split Type

Super High Power Series

High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



Super High Power Series

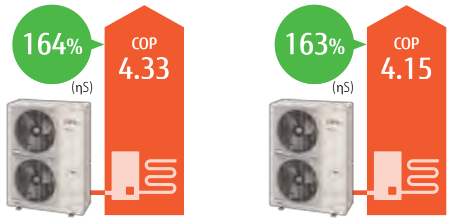
High COP

Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class **A++**

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



3 phase
15kW class

Single phase
16kW class

Extended Operation Range down to -25°C

Improved operation range down to -25°C outdoor temperature

Hydraulic indoor unit:
WSYG160DJ6 / [3 phase] WSYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL / WOYK170LJL

Hydraulic indoor unit
Single phase/
3 phase

Outdoor unit
Single phase 16kW
3 phase 15/17kW

Specifications

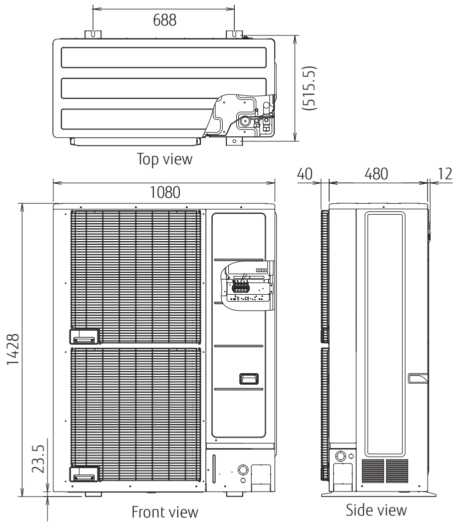
Model Name	Hydraulic indoor unit			WSYG160DJ6		WSYK170DJ9		WSYK170DJ9	
	Outdoor unit			WOYG160LJL		WOYK150LJL		WOYK170LJL	
Capacity range				16		15		17	
7°C/35°C floor heating *1	Heating capacity		kW	16.00		15.00		17.00	
	Input power		kW	3.86		3.46		4.10	
	COP			4.15		4.33		4.15	
2°C/35°C floor heating *1	Heating capacity		kW	13.30		13.20		13.50	
	Input power		kW	4.25		4.06		4.27	
	COP			3.13		3.25		3.16	
-7°C/35°C floor heating*1	Heating capacity		kW	14.50		13.20		15.00	
	Input power		kW	5.27		4.55		5.32	
	COP			2.75		2.90		2.82	
Space heating characteristics*2									
Temperature application			°C	55	35	55	35	55	35
Energy efficiency class				A++	A++	A++	A++	A++	A++
Rated heat output(P_{rated})			kW	14	16	16	17	17	18
Seasonal space heating energy efficiency(η_S)			%	125	163	130	164	130	161
Annual energy consumption			kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit		dB(A)	45	45	45	45	45	45
	Outdoor unit		dB(A)	67	66	67	66	67	68
Hydraulic indoor unit Specification									
Power source				Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Dimensions H×W×D			mm	805 × 450 × 471		805 × 450 × 471			
Weight (Net)			kg	52.5		52.5			
Water circulation	Min/Max		L/min	26.4/57.8		24.0/54.2		27.3/61.4	
Buffer tank capacity			L	25		25			
Expansion vessel capacity			L	10		10			
Leaving water temperature range	Max		°C	60		60			
Water pipe connection diameter	Flow/Return		mm	Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4			
Backup heater	Capacity		kW	6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification									
Power source				Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Current	Max		A	28.00		14.0		14.0	
Dimensions H × W × D			mm	1,428 × 1,080 × 480		1,428 × 1,080 ×480		1,428 × 1,080 ×480	
Weight (Net)			kg	137		138		138	
Refrigerant	Type (Global Warming Potential)			R410A (2,088)					
	Charge		kg	3.80		3.80		3.80	
Additional refrigerant charge amount			g/m	50		50		50	
Connection pipe	Diameter	Liquid	mm	Ø 9.52		Ø 9.52		Ø 9.52	
		Gas	mm	Ø 15.88		Ø 15.88		Ø 15.88	
	Length	Min/Max	m	5/30		5/30		5/30	
	Length(Pre-charge)		m	15		15		15	
	Height difference	Max	m	25/15 (Outdoor unit:Upper/Lower)					
Operation range	Heating		°C	-25 to 35		-25 to 35		-25 to 35	

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

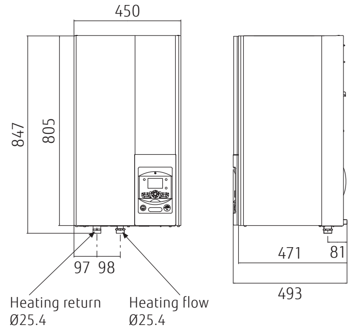
Outdoor Unit:
Single phase: WOYG160LJL
3 phase: WOYK150LJL/WOYK170LJL



Front view

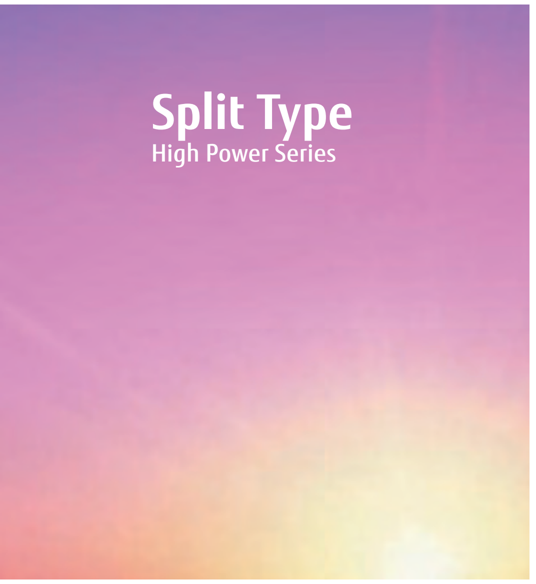
Side view

Hydraulic Indoor Unit:
Single phase : WSYG160DJ6
3 phase: WSYK170DJ9



Front view

Side view



Split Type

High Power Series

High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

High Power Series

High COP

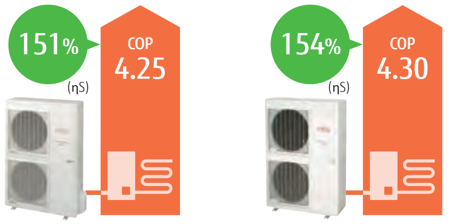
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class **A++ ***

*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Single phase
11kW class

3 phase
11kW class

Hydraulic indoor unit:
WSYG140DG6 / [3 phase] WSYK160DG9
Outdoor unit:
WOYG112LHT / WOYG140LCTA
[3 phase] WOYK112LCTA / WOYK140LCTA / WOYK160LCTA

Hydraulic indoor unit
Single phase/
3 phase

Outdoor unit
Single phase
11/14 kW

Outdoor unit
3 phase
11/14/16 kW

Specifications

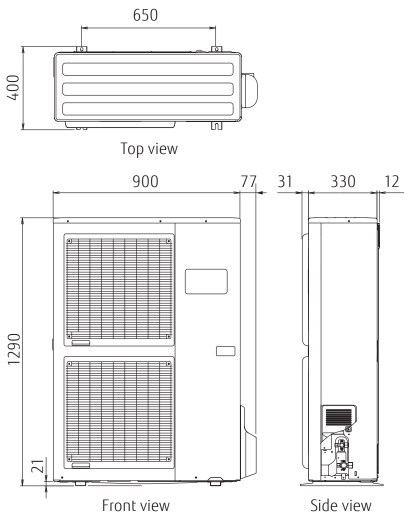
Model Name	Hydraulic indoor unit			WSYG140DG6		WSYG140DG6		WSYK160DG9		WSYK160DG9		WSYK160DG9	
	Outdoor unit			WOYG112LHT		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA	
Capacity range				11		14		11		14		16	
7°C/35°C floor heating *[1]	Heating capacity		kW	10.80		13.50		10.80		13.50		15.17	
	Input power		kW	2.54		3.23		2.51		3.20		3.70	
	COP			4.25		4.18		4.30		4.22		4.10	
2°C/35°C floor heating *[1]	Heating capacity		kW	10.77		12.00		10.77		13.00		13.50	
	Input power		kW	3.44		3.87		3.40		4.15		4.34	
	COP			3.13		3.10		3.17		3.13		3.11	
-7°C/35°C floor heating*[1]	Heating capacity		kW	10.38		11.54		10.38		12.20		13.50	
	Input power		kW	4.32		5.08		4.28		5.13		5.40	
	COP			2.40		2.27		2.43		2.38		2.50	
Space heating characteristics*[2]													
Temperature application			°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency class				A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(P_{rated})			kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency(η_S)			%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption			kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Sound power level	Hydraulic indoor unit		dB(A)	46		46		46		46		46	
	Outdoor unit		dB(A)	68		69		69	68	70	68	71	
Hydraulic indoor unit Specification													
Power source				Single phase, 230 V 50 Hz				3 phase, 400 V 50 Hz					
Dimensions H×W×D			mm	800 × 450 × 457				800 × 450 × 457					
Weight (Net)			kg	42				42					
Water circulation	Min/Max		L/min	19.5/39.0		24.4/48.7		19.5/39.0		24.4/48.7		27.4/54.8	
Buffer tank capacity			L	16				16					
Expansion vessel capacity			L	8				8					
Leaving water temperature range	Max		°C	60				60					
Water pipe connection diameter	Flow/Return		mm	Ø 25.4/Ø 25.4				Ø 25.4/Ø 25.4					
Backup heater	Capacity		kW	6.0(3.0kW×2pcs.)				9.0(3.0kW×3pcs.)					
Outdoor unit specification													
Power source				Single phase, 230 V 50 Hz				3 phase, 400 V 50 Hz					
Current	Max		A	22.0		25.0		9.0		9.5		10.5	
Dimensions H × W × D			mm	1,290 × 900 ×330									
Weight (Net)			kg	92				99					
Refrigerant	Type (Global Warming Potential)			R410A (2,088)									
	Charge		kg	2.50									
Additional refrigerant charge amount			g/m	50									
Connection pipe	Diameter	Liquid	mm	Ø 9.52									
		Gas	mm	Ø 15.88									
	Length	Min/Max	m	5/20									
	Length(Pre-charge)		m	15									
	Height difference	Max	m	15									
Operation range	Heating		°C	-25 to 35									

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

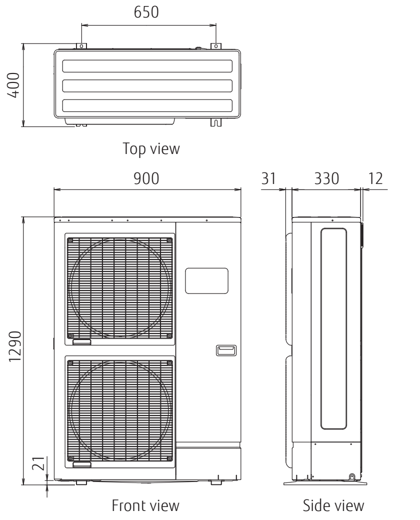
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

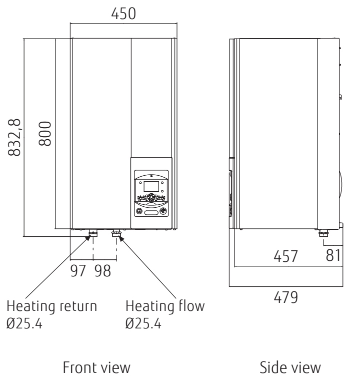
Outdoor Unit:
Single phase: WOYG112LHT/WOYG140LCTA



3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:
Single phase: WSYG140DG6
3 phase: WSYK160DG9



Split Type

Comfort Series

High Leaving Water Temperature

Maximum leaving water temperature is 55℃ without backup heater. Hot water supply temperature can be maintained even at -10℃ outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

Comfort Series

High COP

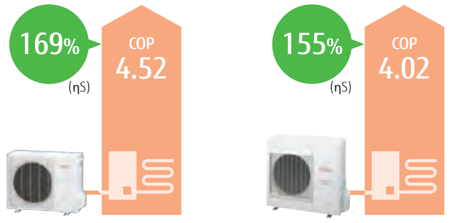
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class **A++ ***

*Temperature application : Heating Temp. 35℃.

Seasonal space heating energy efficiency (η_S)

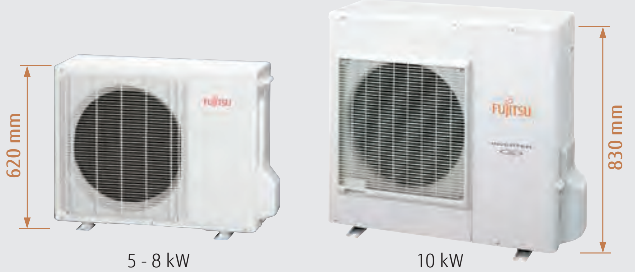
Condition : Outdoor Temp. 7℃ Heating Temp. 35℃.



Single phase
5kW class

Single phase
10kW class

Outdoor unit technology

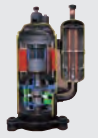


5 - 8 kW

10 kW

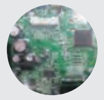
DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:

WSYA050DG6 / WSYA100DG6

Outdoor unit:

WOYA060LFCA / WOYA080LFCA / WOYA100LFTA

Hydraulic indoor unit
Single phase

Outdoor unit
Single phase
5/6/8kW

Outdoor unit
Single phase
10kW

Specifications

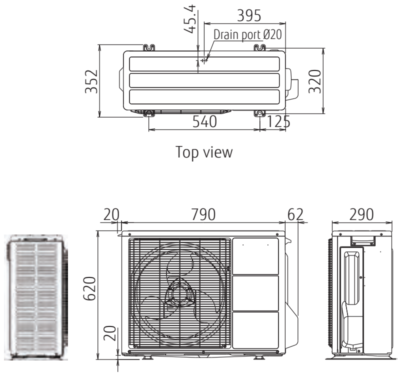
Model Name	Hydraulic indoor unit		WSYA050DG6		WSYA100DG6		WSYA100DG6		WSYA100DG6	
	Outdoor unit		WOYA060LFCA		WOYA060LFCA		WOYA080LFCA		WOYA100LFTA	
Capacity range			5		6		8		10	
7℃/35℃ floor heating *1	Heating capacity	kW	4.50		6.00		7.50		10.00	
	Input power		0.996		1.41		1.84		2.49	
	COP		4.52		4.27		4.08		4.02	
2℃/35℃ floor heating *1	Heating capacity	kW	4.50		4.95		5.65		7.70	
	Input power		1.39		1.53		1.78		2.47	
	COP		3.24		3.24		3.17		3.12	
-7℃/35℃ floor heating*1	Heating capacity	kW	4.10		4.60		5.70		7.40	
	Input power		1.47		1.74		2.23		2.97	
	COP		2.79		2.64		2.56		2.49	
Space heating characteristics*2										
Temperature application		℃	55	35	55	35	55	35	55	35
Energy efficiency class			A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(P_{rated})		kW	4	4	5	5	6	7	8	8
Seasonal space heating energy efficiency(η_S)		%	115	169	115	169	118	156	113	155
Annual energy consumption		kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415
Sound power level	Hydraulic indoor unit	dB(A)	46		46		46		46	
	Outdoor unit		65	60	65	63	65	69	68	69
Hydraulic indoor unit Specification										
Power source			Single phase 230 V 50 Hz							
Dimensions H×W×D		mm	800 × 450 × 457							
Weight (Net)		kg	42							
Water circulation	Min/Max	L/min	8.1/16.2		10.8/21.7		13.5/27.1		18.1/36.1	
Buffer tank capacity		L	16							
Expansion vessel capacity		L	8							
Leaving water temperature range	Max	℃	55							
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4							
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)							
Outdoor unit specification										
Power source			Single phase 230 V 50 Hz							
Current	Max	A	12.5				17.5		18.5	
Dimensions H × W × D		mm	620 × 790 ×290						830 × 900 × 330	
Weight (Net)		kg	41				42		60	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)							
	Charge	kg	1.10				1.40		1.80	
Additional refrigerant charge amount		g/m	25						40	
Connection pipe	Diameter Liquid	mm	Ø 6.35						Ø 9.52	
	Diameter Gas		Ø 12.7				Ø 15.88			
	Length Min/Max	m	5/30							
	Length(Pre-charge)	m	15							
	Height difference Max	m	20							
Operation range	Heating	℃	-20 to 35							

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

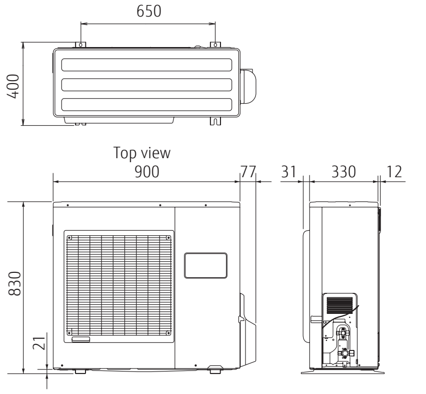
Dimensions

Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



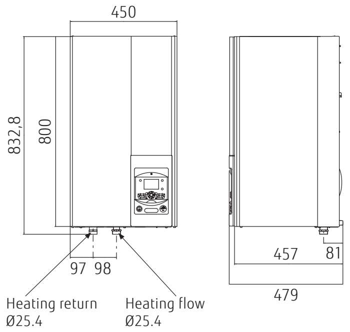
Side view Front view Side view

WOYA100LFTA



Front view Side view

Hydraulic Indoor Unit:
WSYA050DG6/WSYA100DG6



Front view Side view

NEW

Split DHW Integrated Type

Comfort Series

WATERSTAGE™

High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

Comfort Series

High COP

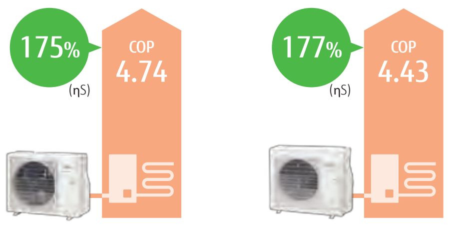
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class A+++*

*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Single phase
5kW class

Single phase
8kW class

Outdoor unit technology

5 - 6 kW

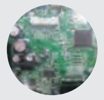
8 kW

DC Fan Motor

High performance, high efficiency small DC fan motor mounted.

DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

WATERSTAGE™

Hydraulic indoor unit:
WGYA050ML3 / WGYA080ML3
Outdoor unit:
WOYA060KLT / WOYA080KLT

Hydraulic indoor unit
Single phase

Outdoor unit
Single phase
5/6kW

Outdoor unit
Single phase
8kW

Specifications

Model Name	Hydraulic indoor unit			WGYA050ML3		WGYA080ML3		WGYA080ML3	
	Outdoor unit			WOYA060KLT		WOYA060KLT		WOYA080KLT	
Capacity range				5		6		8	
7°C/35°C floor heating *1	Heating capacity		kW	4.50		5.50		7.50	
	Input power		kW	0.949		1.18		1.69	
	COP			4.74		4.65		4.43	
2°C/35°C floor heating *1	Heating capacity		kW	4.50		5.30		6.30	
	Input power		kW	1.33		1.65		1.96	
	COP			3.39		3.22		3.21	
-7°C/35°C floor heating*1	Heating capacity		kW	4.40		5.00		5.70	
	Input power		kW	1.59		1.90		2.13	
	COP			2.76		2.63		2.68	
Space heating characteristics*2									
Temperature application			°C	55	35	55	35	55	35
Energy efficiency class				A++	A+++	A++	A+++	A++	A+++
Rated heat output(P_{rated})			kW	5	5	5	6	6	7
Seasonal space heating energy efficiency(η_S)			%	125	175	125	175	128	177
Annual energy consumption			kWh	3,035	2,322	3,411	2,594	3,903	2,982
Sound power level*3	Hydraulic indoor unit		dB(A)	40	-	40	-	40	-
	Outdoor unit		dB(A)	57	-	57	-	60	-
Domestic hot water characteristics*2									
Load profile				L		L		L	
Energy efficiency class				A+		A+		A+	
Energy efficiency(ηwh)			%	130		130		130	
Annual electricity consumption			kWh	793		793		793	
Hydraulic indoor unit Specification									
Power source				Single phase 230 V 50 Hz					
Dimensions H×W×D			mm	1,863 x 648 x 700		1,863 x 648 x 700		1,863 x 648 x 700	
Weight (Net)			kg	143		143		143	
Water circulation			L/min	7.6/22.0		8.5/22.0		10.0/22.0	
DHW capacity			L	190		190		190	
Hot water heater capacity			kW	1.5		1.5		1.5	
Buffer tank capacity			L	16		16		16	
Expansion vessel capacity			L	8		8		8	
Leaving water temperature range		Max	°C	55		55		55	
Water pipe connection diameter		Flow/Return	mm	Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4	
Hot water pipe connection diameter			mm	Ø 19.05		Ø 19.05		Ø 19.05	
Backup heater		Capacity	kW	3.0		3.0		3.0	
Outdoor unit specification									
Power source				Single phase 230 V 50 Hz					
Current		Max	A	13.0		13.0		18.0	
Dimensions H × W × D			mm	632 x 799 x 290		632 x 799 x 290		716 x 820 x 315	
Weight (Net)			kg	39		39		42	
Refrigerant		Type (Global Warming Potential)		R32(675)		R32(675)		R32(675)	
		Charge	kg	0.97		0.97		1.02	
Additional refrigerant charge amount			g/m	25		25		25	
Connection pipe	Diameter	Liquid	mm	6.35		6.35		6.35	
		Gas	mm	12.70		12.70		12.70	
	Length	Min/Max	m	3/30		3/30		3/30	
	Length(Pre-charge)		m	15		15		15	
	Height difference	Max	m	20		20		20	
Operation range		Heating	°C	-20 to 35		-20 to 35		-20 to 35	

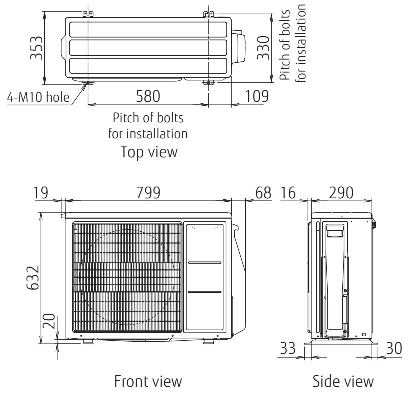
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

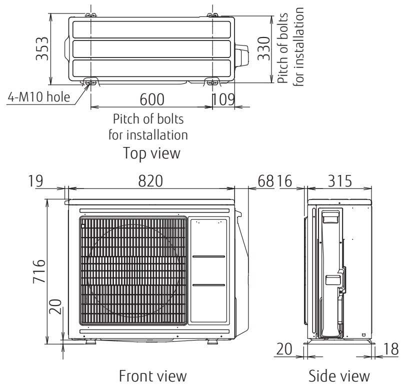
*3:The values of sound power level are besed on mesurement of EN12102 standard under conditions of EN14825 standard.

Dimensions

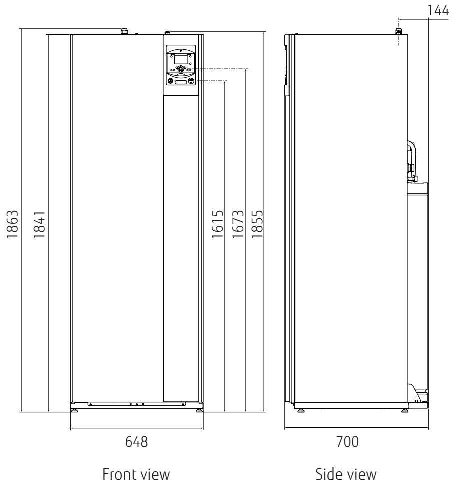
Outdoor Unit:
WOYA060KLT



WOYA080KLT



Hydraulic Indoor Unit:
WGYA050ML3/WGYA080ML3



Split DHW Integrated Type

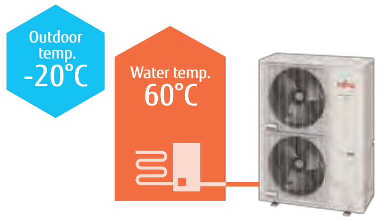
Super High Power Series

WATERSTAGE™

High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



Super High Power Series

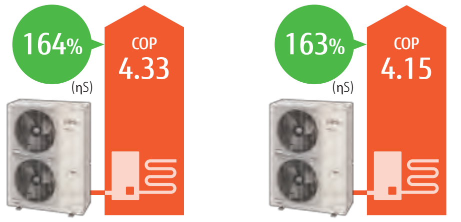
High COP

Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class A++

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



3 phase
15kW class

Single phase
16kW class

Extended Operation Range down to -25°C

Improved operation range down to -25°C outdoor temperature

Stylish space saving solution with

Built in High Performance DHW Tank 190 L

- DHW Production with coil heat exchanger to optimise the DHW performance
- Quick temperature rise due to a big exchanger surface

Hydraulic indoor unit:
WGYG160DJ6 / [3 phase] WGYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL / WOYK170LJL

Hydraulic indoor unit
Single phase/
3 phase

Outdoor unit
Single phase 16kW
3 phase 15/17kW

Specifications

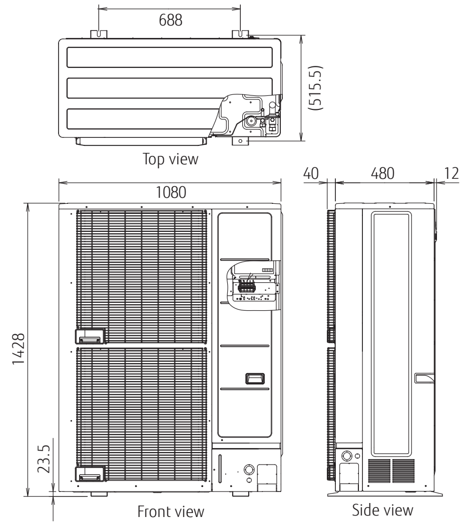
Model Name	Hydraulic indoor unit			WGYG160DJ6		WGYK170DJ9		WGYK170DJ9	
	Outdoor unit			WOYG160LJL		WOYK150LJL		WOYK170LJL	
Capacity range				16		15		17	
7°C/35°C floor heating *1	Heating capacity		kW	16.00		15.00		17.00	
	Input power		kW	3.86		3.46		4.10	
	COP			4.15		4.33		4.15	
2°C/35°C floor heating *1	Heating capacity		kW	13.30		13.20		13.50	
	Input power		kW	4.25		4.06		4.27	
	COP			3.13		3.25		3.16	
-7°C/35°C floor heating*1	Heating capacity		kW	14.50		13.20		15.00	
	Input power		kW	5.27		4.55		5.32	
	COP			2.75		2.90		2.82	
Space heating characteristics*2									
Temperature application			°C	55	35	55	35	55	35
Energy efficiency class				A++	A++	A++	A++	A++	A++
Rated heat output(P_{rated})			kW	14	16	16	17	17	18
Seasonal space heating energy efficiency(η_S)			%	125	163	130	164	130	161
Annual energy consumption			kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit		dB(A)	45	45	45	45	45	45
	Outdoor unit		dB(A)	67	66	67	66	67	68
Domestic hot water characteristics*2									
Load profile				L					
Energy efficiency class				A					
Energy efficiency(ηwh)			%	109					
Annual electricity consumption			kWh	941					
Hydraulic indoor unit Specification									
Power source				Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Dimensions H×W×D			mm	1,841 × 648 × 698					
Weight (Net)			kg	166					
Water circulation			L/min	26.4/57.8		24.0/54.2		27.3/61.4	
DHW capacity			L	190					
Hot water heater capacity			kW	1.5					
Buffer tank capacity			L	25					
Expansion vessel capacity			L	12					
Leaving water temperature range	Max		°C	60					
Water pipe connection diameter	Flow/Return		mm	Ø 25.4/Ø 25.4					
Hot water pipe connection diameter			mm	Ø 19.05					
Backup heater	Capacity		kW	6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification									
Power source				Single phase, 230 V 50 Hz		3 phase, 400 V 50 Hz			
Current	Max		A	28.0		14.0			
Dimensions H × W × D			mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480			
Weight (Net)			kg	137		138			
Refrigerant	Type (Global Warming Potential)			R410A (2,088)		R410A (2,088)			
	Charge		kg	3.80		3.80			
Additional refrigerant charge amount			g/m	50		50			
Connection pipe	Diameter	Liquid	mm	Ø 9.52		Ø 9.52			
		Gas	mm	Ø 15.88		Ø 15.88			
	Length	Min/Max	m	5/30		5/30			
	Length(Pre-charge)		m	15		15			
	Height difference	Max	m	25/15 (Outdoor unit:Upper/Lower)		25/15 (Outdoor unit:Upper/Lower)			
Operation range	Heating		°C	-25 to 35		-25 to 35			

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

Outdoor Unit:
Single phase: WOYG160LJL
3 phase: WOYK150LJL/WOYK170LJL

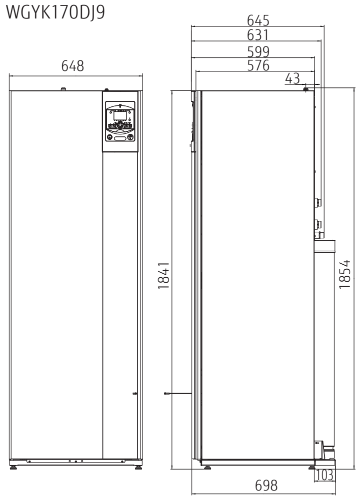


Top view

Front view

Side view

Hydraulic Indoor Unit:
Single phase: WGYG160DJ6
3 phase: WGYK170DJ9



Front view

Side view

Split DHW Integrated Type

High Power Series

High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

High Power Series

High COP

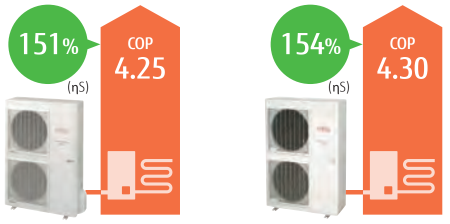
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class A++ *

*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_S)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

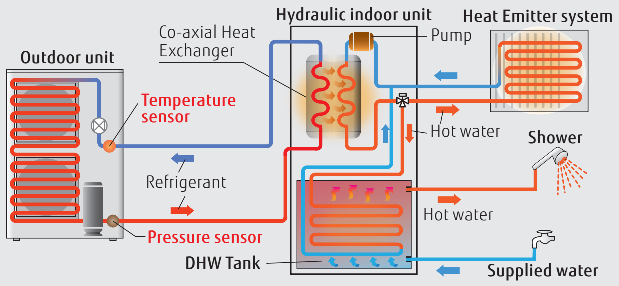


Single phase
11kW class

3 phase
11kW class

Optimization of refrigerant cycle operation

High Power model achieves a high performance and efficiency by adopting twin sensors and control technology corresponding to hot water heating.



Hydraulic indoor unit:
WGYG140DG6 / [3 phase] WGYK160DG9
Outdoor unit:
WOYG112LHT / WOYG140LCTA
[3 phase] WOYK112LCTA / WOYK140LCTA / WOYK160LCTA

Hydraulic indoor unit
Single phase/
3 phase

Outdoor unit
Single phase
11/14 kW

Outdoor unit
3 phase
11/14/16 kW

Specifications

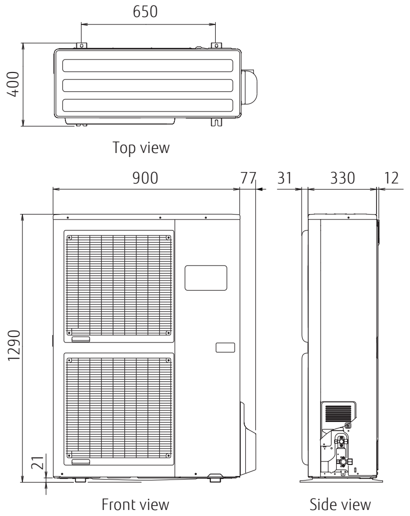
Model Name		Hydraulic indoor unit		WGYG140DG6		WGYG140DG6		WGYK160DG9		WGYK160DG9		WGYK160DG9	
		Outdoor unit		WOYG112LHT		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA	
Capacity range				11		14		11		14		16	
7°C/35°C floor heating *1		Heating capacity	kW	10.80		13.50		10.80		13.50		15.17	
		Input power		2.54		3.23		2.51		3.20		3.70	
		COP		4.25		4.18		4.30		4.22		4.10	
2°C/35°C floor heating *1		Heating capacity	kW	10.77		12.00		10.77		13.00		13.50	
		Input power		3.44		3.87		3.40		4.15		4.34	
		COP		3.13		3.10		3.17		3.13		3.11	
-7°C/35°C floor heating*1		Heating capacity	kW	10.38		11.54		10.38		12.20		13.50	
		Input power		4.32		5.08		4.28		5.13		5.40	
		COP		2.40		2.27		2.43		2.38		2.50	
Space heating characteristics*2													
Temperature application			°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency class				A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(P_{rated})			kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency(η_S)			%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption			kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Sound power level	Hydraulic indoor unit		dB(A)	46		46		46		46		46	
	Outdoor unit			68		69		69	68	70	68	71	
Domestic hot water characteristics*2													
Load profile				L									
Energy efficiency class				A									
Energy efficiency(η_{wh})			%	88									
Annual electricity consumption			kWh	1166									
Hydraulic indoor unit Specification													
Power source				Single phase 230 V 50 Hz				3 phase, 400 V 50 Hz					
Dimensions H×W×D			mm	1,840× 648 × 698									
Weight (Net)			kg	152									
Water circulation			L/min	19.5/39.0		24.4/28.7		19.5/39.0		24.4/48.7		27.4/54.8	
DHW capacity			L	190									
Hot water heater capacity			kW	1.5									
Buffer tank capacity			L	16									
Expansion vessel capacity			L	12									
Leaving water temperature range		Max	°C	60									
Water pipe connection diameter		Flow/Return	mm	Ø 25.4/Ø 25.4									
Hot water pipe connection diameter			mm	Ø 19.05									
Backup heater		Capacity	kW	6.0(3.0kW×2pcs.)				9.0(3.0kW×3pcs.)					
Outdoor unit specification													
Power source				Single phase 230 V 50 Hz				3 phase, 400 V 50 Hz					
Current		Max	A	22.0		25.0		9.0		9.5		10.5	
Dimensions H × W × D			mm	1,290 × 900 ×330									
Weight (Net)			kg	92				99					
Refrigerant		Type (Global Warming Potential)		R410A (2,088)									
		Charge	kg	2.50									
Additional refrigerant charge amount			g/m	50									
Connection pipe	Diameter	Liquid	mm	Ø 9.52									
		Gas		Ø 15.88									
	Length	Min/Max	m	5/20									
	Length(Pre-charge)		m	15									
	Height difference	Max	m	15									
Operation range		Heating	°C	-25 to 35									

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

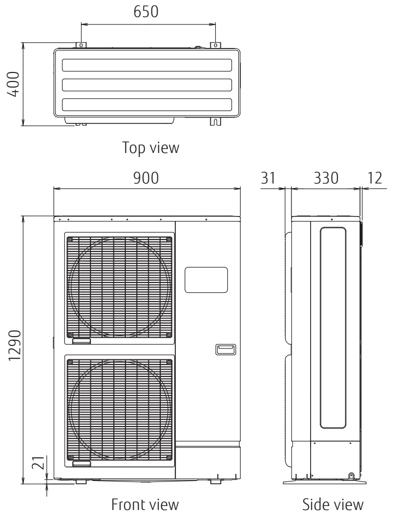
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

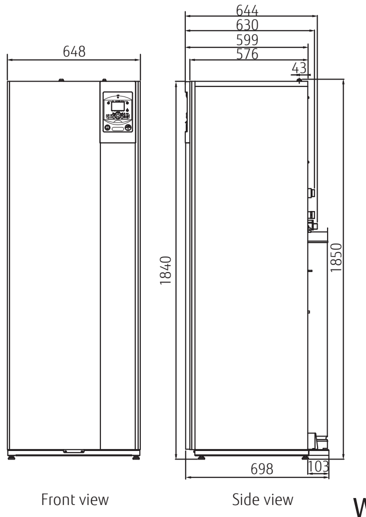
Outdoor Unit:
Single phase: WOYG112LHT/WOYG140LCTA



3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:
Single phase: WGYG140DG6
3 phase: WGYK160DG9



Split DHW Integrated Type

Comfort Series

WATERSTAGE™

High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.

Comfort Series

High COP

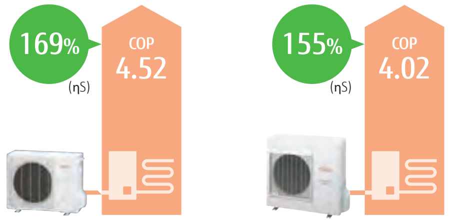
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class **A++***

*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Single phase
5kW class

Single phase
10kW class

Outdoor unit technology

5 - 8 kW

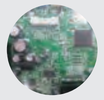
10 kW

DC Fan Motor

High performance, high efficiency small DC fan motor mounted.

DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WGYA050DG6 / WGYA100DG6
Outdoor unit:
WOYA060LFCA / WOYA080LFCA / WOYA100LFTA

Hydraulic indoor unit
Single phase

Outdoor unit
Single phase
5/6/8kW

Outdoor unit
Single phase
10kW

Specifications

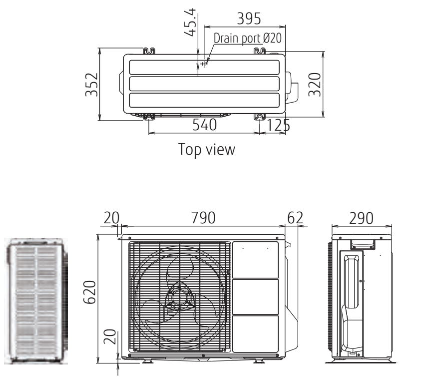
Model Name		Hydraulic indoor unit		WGYA050DG6		WGYA100DG6		WGYA100DG6		WGYA100DG6	
		Outdoor unit		WOYA060LFCA		WOYA060LFCA		WOYA080LFCA		WOYA100LFTA	
Capacity range				5		6		8		10	
7°C/35°C floor heating *1		Heating capacity	kW	4.50		6.00		7.50		10.00	
		Input power		0.996		1.41		1.84		2.49	
		COP		4.52		4.27		4.08		4.02	
2°C/35°C floor heating *1		Heating capacity	kW	4.50		4.95		5.65		7.70	
		Input power		1.39		1.53		1.78		2.47	
		COP		3.24		3.24		3.17		3.12	
-7°C/35°C floor heating*1		Heating capacity	kW	4.10		4.60		5.70		7.40	
		Input power		1.47		1.74		2.23		2.97	
		COP		2.79		2.64		2.56		2.49	
Space heating characteristics*2											
Temperature application			°C	55	35	55	35	55	35	55	35
Energy efficiency class				A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(P_{rated})			kW	4	4	5	5	6	7	8	8
Seasonal space heating energy efficiency(η_s)			%	115	169	115	169	118	156	113	155
Annual energy consumption			kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415
Sound power level	Hydraulic indoor unit		dB(A)	46		46		46		46	
	Outdoor unit			65	60	65	63	65	69	68	69
Domestic hot water characteristics*2											
Load profile				L							
Energy efficiency class				A+							
Energy efficiency(ηwh)			%	120							
Annual electricity consumption			kWh	880							
Hydraulic indoor unit Specification											
Power source				Single phase 230 V 50 Hz							
Dimensions H×W×D			mm	1,840× 648 × 698							
Weight (Net)			kg	152							
Water circulation			L/min	8.1/16.2		10.8/21.7		13.5/27.1		18.1/36.1	
DHW capacity			L	190							
Hot water heater capacity			kW	1.5							
Buffer tank capacity			L	16							
Expansion vessel capacity			L	12							
Leaving water temperature range		Max	°C	55							
Water pipe connection diameter		Flow/Return	mm	Ø 25.4/Ø 25.4							
Hot water pipe connection diameter			mm	Ø 19.05							
Backup heater		Capacity	kW	6.0(3.0kW×2pcs.)							
Outdoor unit specification											
Power source				Single phase 230 V 50 Hz							
Current		Max	A	12.5				17.5		18.5	
Dimensions H × W × D			mm	620 × 790 ×290						830 × 900 ×330	
Weight (Net)			kg	41				42		60	
Refrigerant		Type (Global Warming Potential)		R410A (2,088)							
		Charge	kg	1.10				1.40		1.80	
Additional refrigerant charge amount			g/m	25						40	
Connection pipe	Diameter	Liquid	mm	Ø 6.35						Ø 9.52	
		Gas		Ø 12.70				Ø 15.88			
	Length	Min/Max	m	5/30							
	Length(Pre-charge)		m	15							
	Height difference	Max	m	20							
Operation range		Heating	°C	-20 to 35							

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

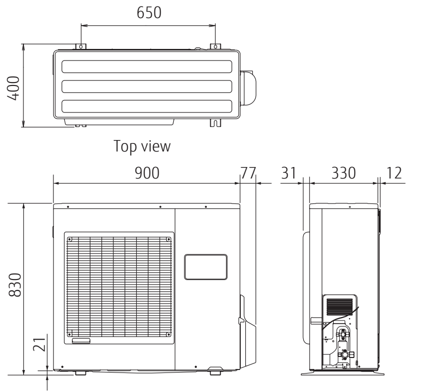
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

Dimensions

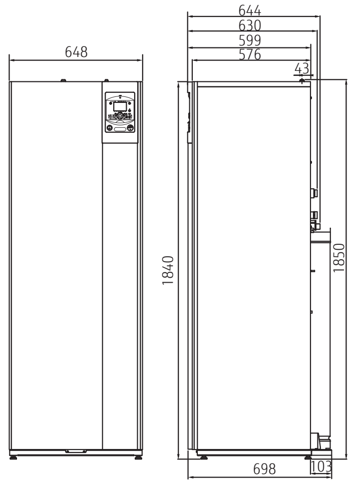
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFTA

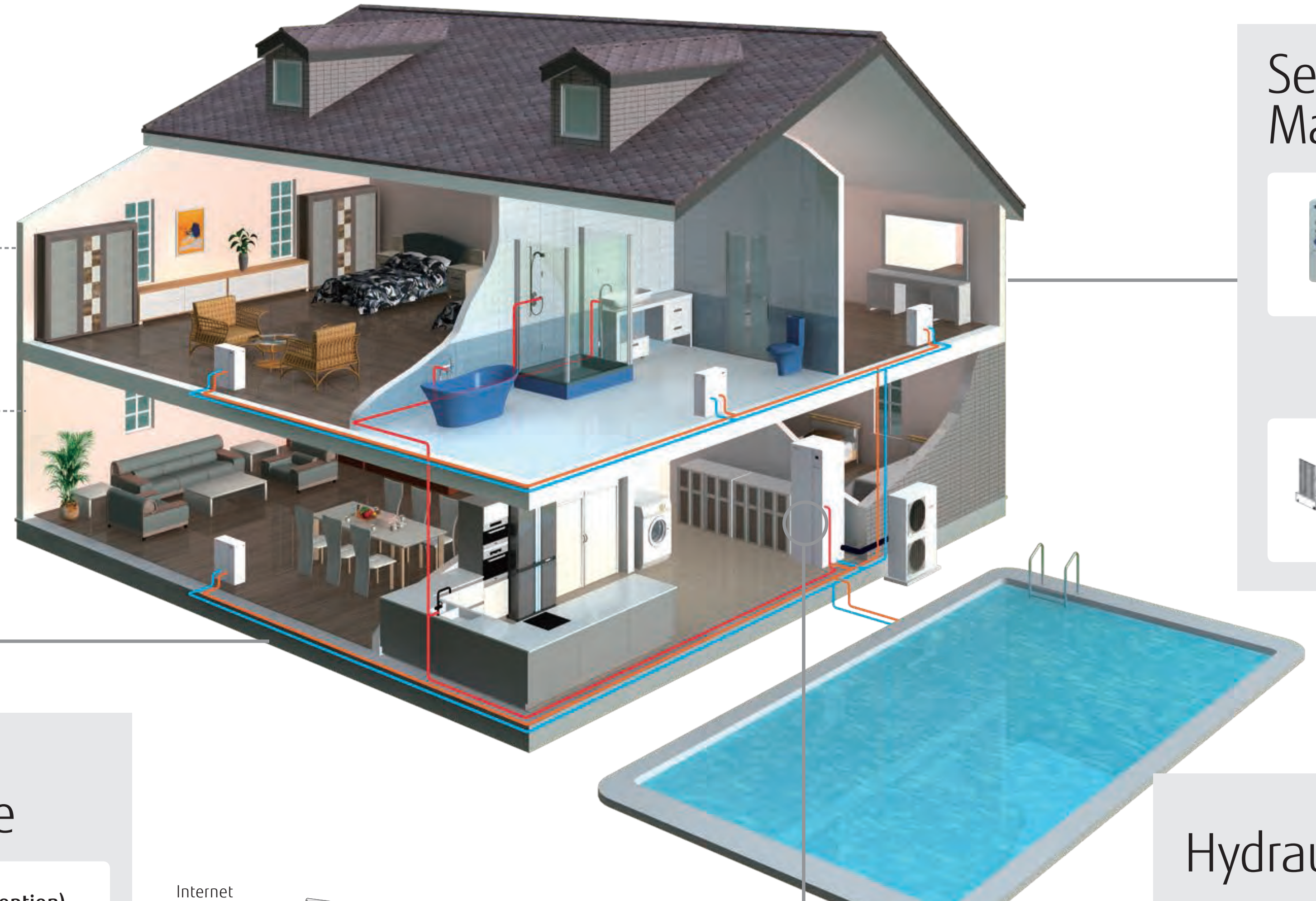


Hydraulic Indoor Unit:
WGYA050DG6/WGYA100DG6



Control Overview

User`s needs are supported by offering a variety of controls, such as individual control and remote control options.



Individual Control

Wireless Remote Control(option)
Room Thermostat
UTW-C58XD

RF Module
UTW-MRCXD

Wired Remote Control (option)
Room Thermostat
UTW-C55XA

Wired Remote Control (option)
Remote Control
UTW-C74TXF*1
UTW-C74HXF*1

Servicer & Maintenance Tool

Web server (option)
UTW-KW1XD
UTW-KW4XD

or

LPB clip (option)
UTW-KL1XD

Service Tool (option)

UTW-KPSXD*3
Software

UTW-KPSXD*4

*3: UTW-KW1XD or UTW-KW4XD is required for the connection.
*4: UTW-KL1XD is required for the connection.

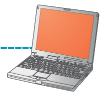
Adaptor for external device

Web server (option)
UTW-KW1XD
UTW-KW4XD

LPB clip (option)
UTW-KMBXJ*2

*2:Additional optional parts necessary.

Internet



Remote control system

Smartdevice control

Home Automation system

Super High Power Series
Hydraulic indoor unit

Hydraulic Indoor Unit Controller

Simple operation mode setting
- Selecting the heating mode and Domestic hot water operation

Large LCD display
- Operation status display
- Error display
- plain text

Navigation and setting
- Selecting the heating menu
- Setting program timer

HMI Kit (option)
UTW-KHMXE
Corresponding to multi languages

Comfort Control

The high grade heating controller adjusts the flow temperature automatically depending on the weather conditions, so that the room ambient temperature and the domestic hot water temperature are maintained at the desired levels.

Hydraulic Indoor Unit Controller

4 Heating mode

1. Automatic mode
Comfort/Reduce mode switching automatically according to time program

2. Reduce mode
Constant reduce temperature

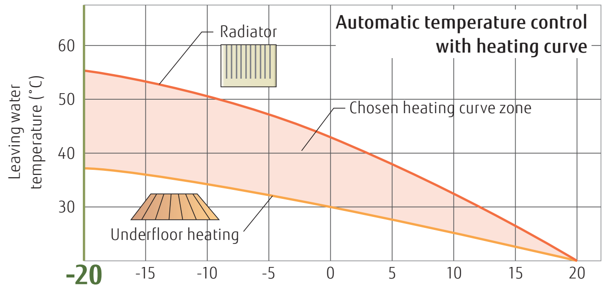
3. Comfort mode
Constant comfort temperature

4. Protection mode
Stand-by mode with anti-frost protection

Useful Function

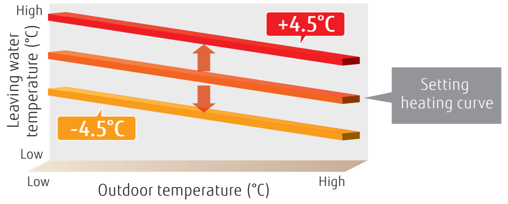
Automatic heating curve control

Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)



Heating curve off-set: Adjust setting room temp.

This can be fine adjusted when too warm or too cold.



Quick recovery from defrost operation

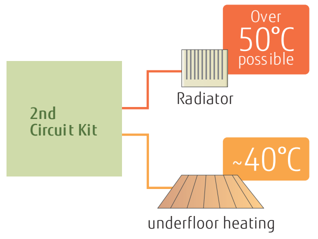
Maintains the room temperature during defrost operation by boost start operation.

Auto-changeover

If the cooling operation function is set, the system can automatically switch to cooling or heating, depending on the outdoor temperature to provide all-season comfortable air conditioning.

2 Zone individual control

2 Zone individual control (2 underfloor heating zones or underfloor heating + radiator zone, etc.)*1

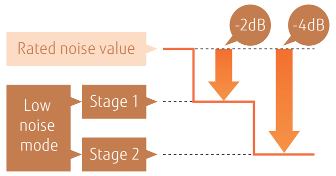


*1: Optional parts are required.

2 Stage low noise mode

Outdoor unit can be switched to silent mode, depending on the installation environment.

*Valid only for High Power



Backup heater operation

Backup heater can operate at low outdoor temperature so that comfortable status can be maintained. The backup heater is controlled intelligently just as a security backup for very cold days/nights and only activated when really necessary.

Energy Saving

Programmable timer

- The setting of timer operation can easily be adjusted.
- Changing the heating mode linked with time is possible.

Day-Weekly timer setting

- The day-weekly timer can be set up for up to 3 times per day.
- Allows separate settings for each day of the week.

Holiday timer setting

- The holiday timer can be set up for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.

Peak Cut Function*2

This function performs operation by setting a peak current value and reducing the power consumption.

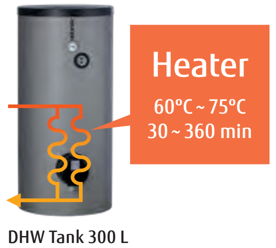
Mode	The ratio of suppressing the power consumption
1	100%
2	75%
3	50%
4	Almost 0%

*2: Optional parts are required.

Safety Function

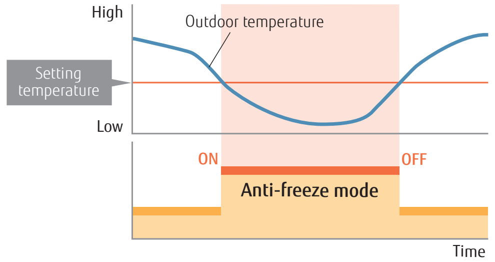
Anti-legionella function

The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.



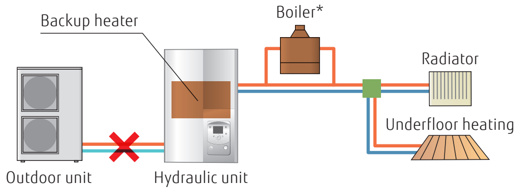
Anti-freeze function

Water circulation and compressor can be automatically achieved at low outdoor temperature. Freezing of circulated water can be prevented.



Emergency operation

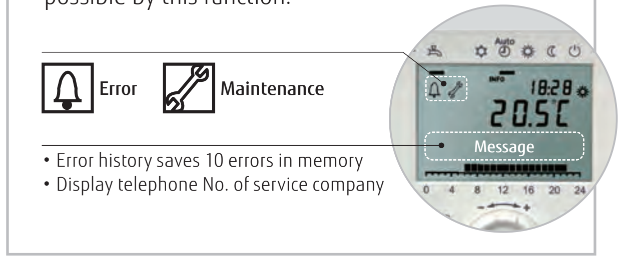
System can continuously supply hot water by built in back up heater or boiler, as emergency, even if an error is occurred.



*When additional boiler connected

Error/Maintenance alarm

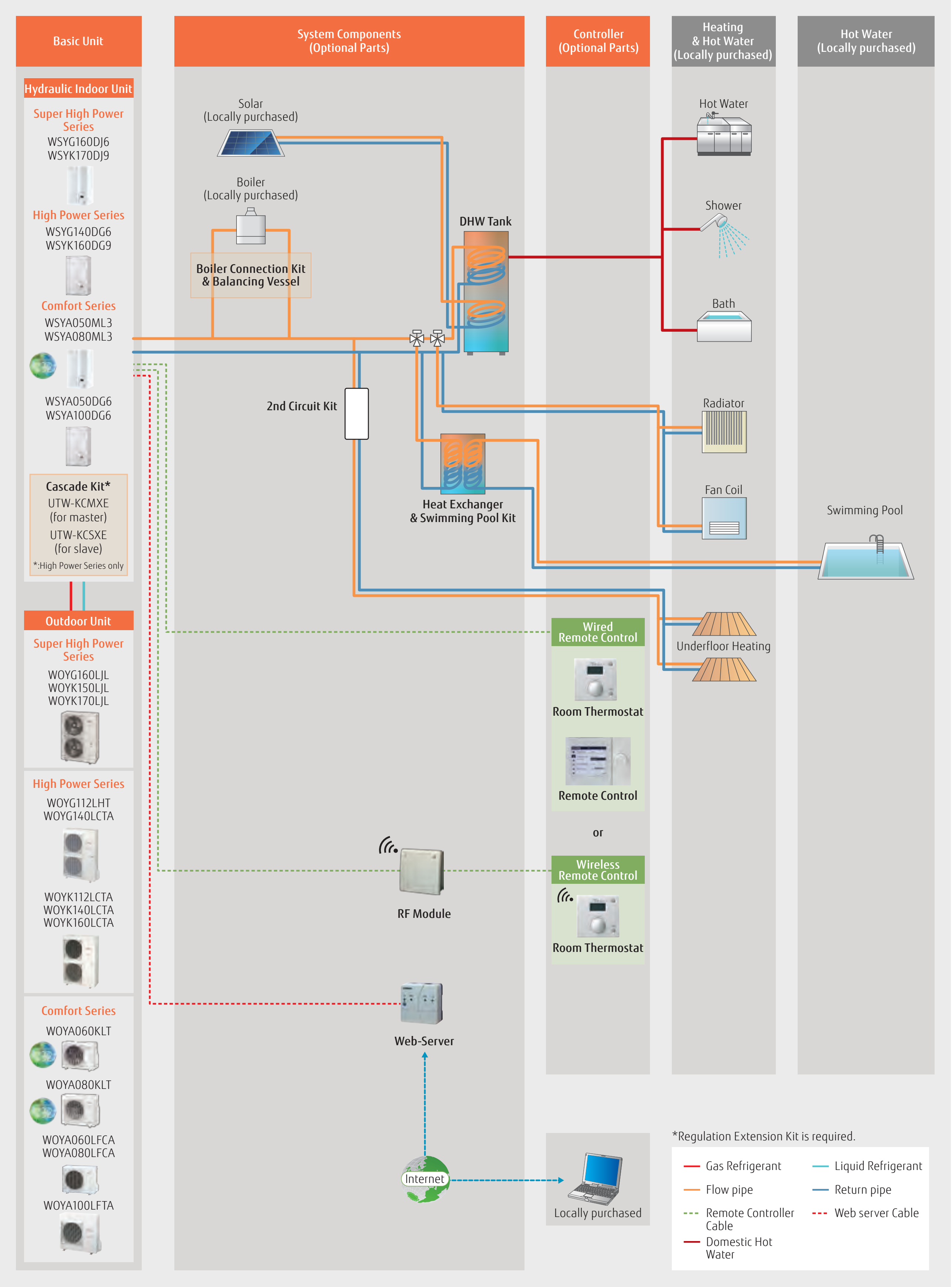
Quick error handling service and maintenance are possible by this function.



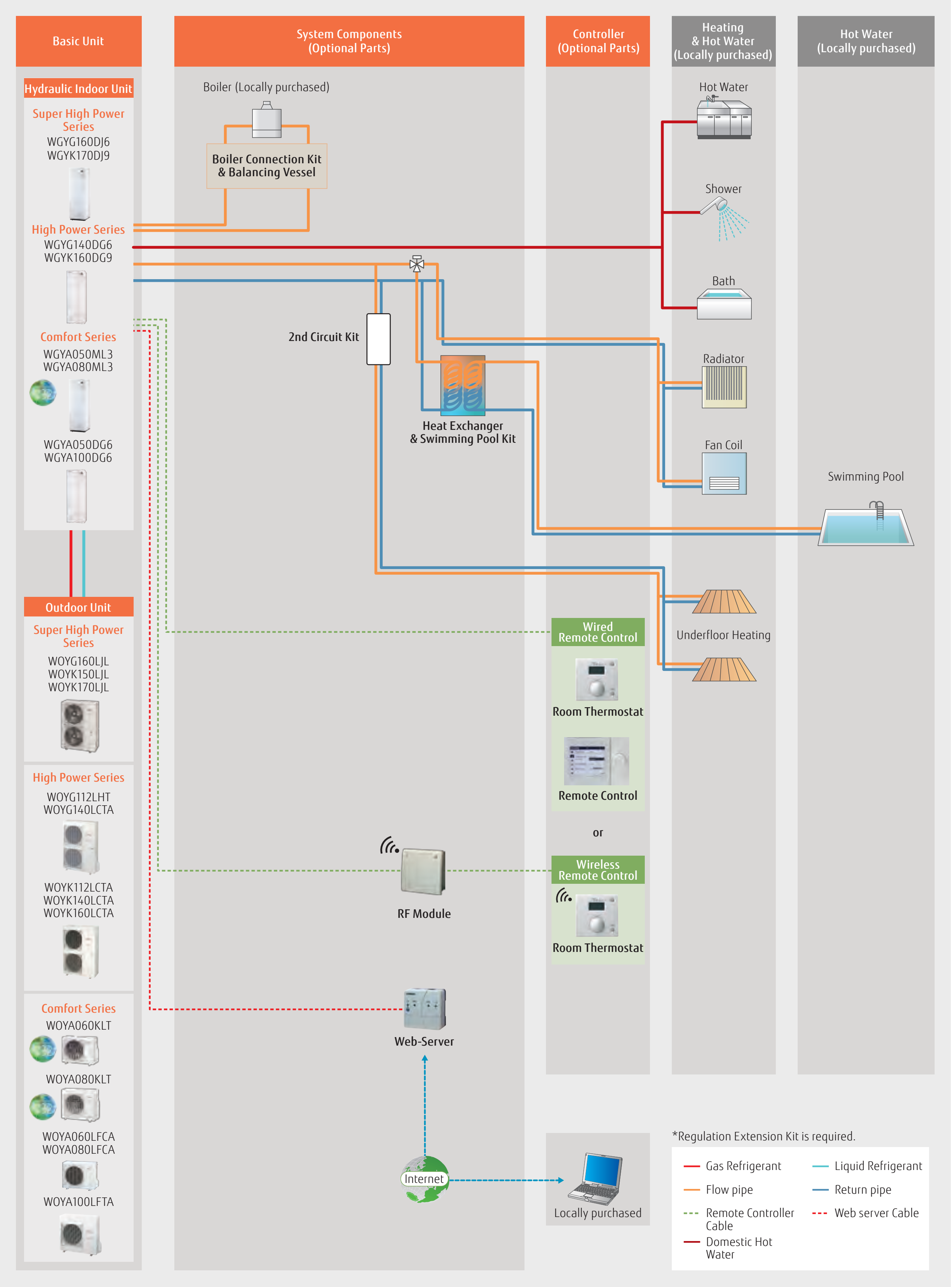
- Error history saves 10 errors in memory
- Display telephone No. of service company

System Configuration

Split Type



Split DHW Integrated Type

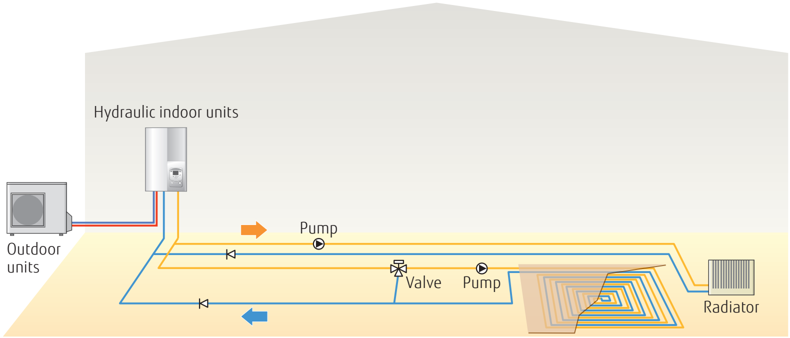


Case Studies

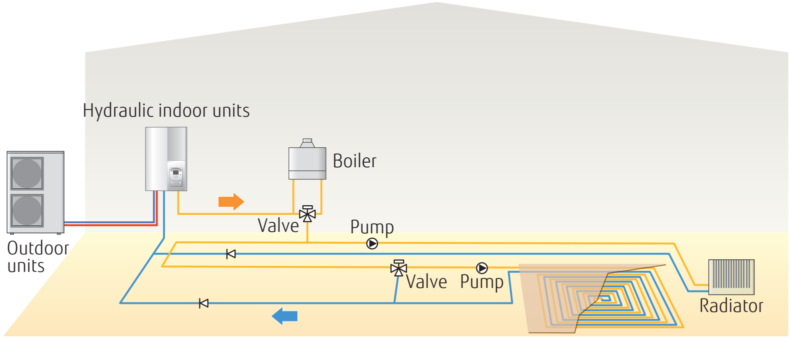
Split Type

2 emitter simultaneous heating (Individual control)

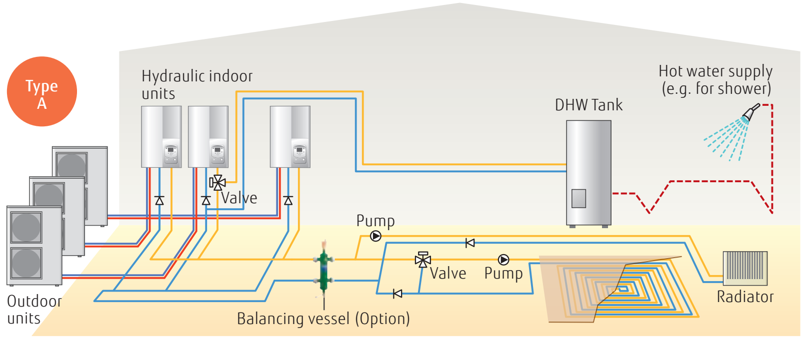
Underfloor heating + Radiator

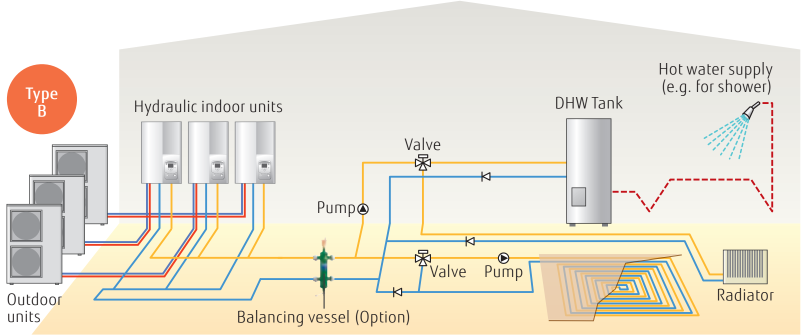


Boiler connected to heating (Boiler + Heating)



2 emitter simultaneous heating & Domestic Hot Water (Cascade)

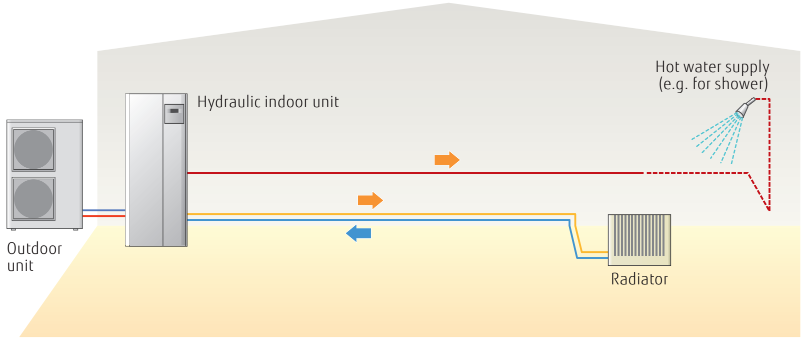




Split DHW Integrated Type

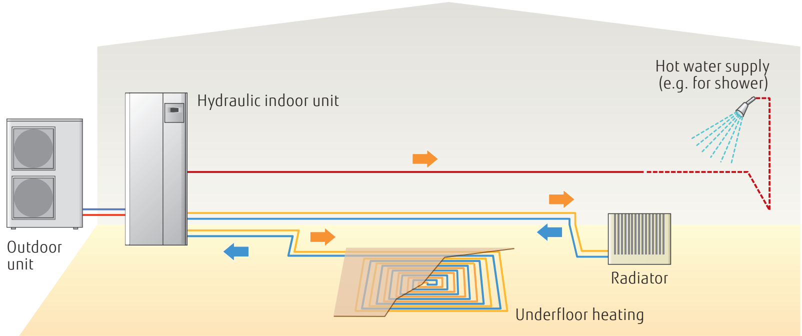
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water

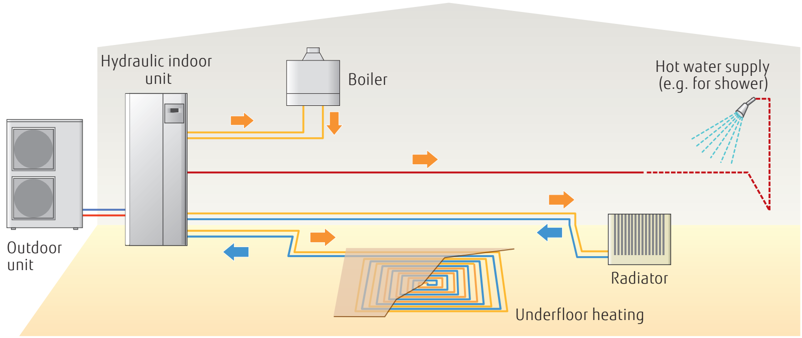


2 emitter simultaneous heating (Individual control) & Domestic Hot Water

Radiator + Domestic Hot Water



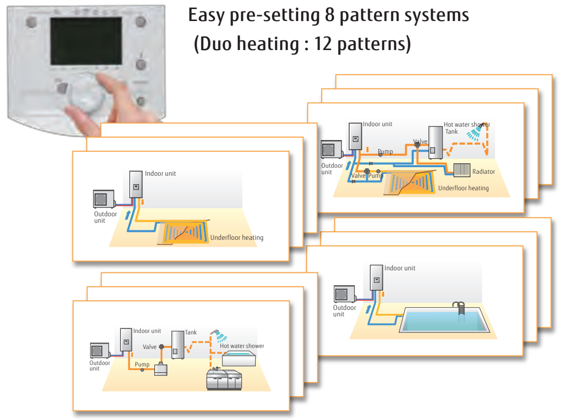
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water



Simplified installation

Pre-setting configurations

When installed, the controller makes it simple to set system settings without having to individually set the system's components and units.

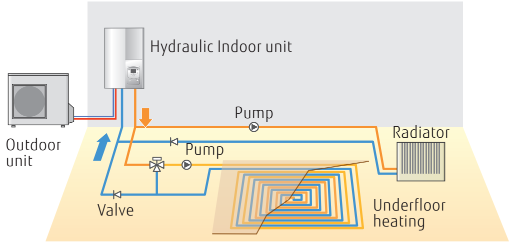


Configuration (Parameter 5700)	Type of installation
Pre setting 1	1 heating circuit
Pre setting 2	2 heating circuit
Pre setting 3	1 heating circuit & boiler backup
Pre setting 4	2 heating circuit & boiler backup
Pre setting 5	1/2 heating circuit & buffer control
Pre setting 6	1/2 heating circuit & buffer control & boiler backup
Pre setting 7	cascade connection Master
Pre setting 8	cascade connection A
Pre setting 9	cascade connection B/C

- DHW & solar control auto detection
- pool heating & cooling optional

Outdoor temperature simulation

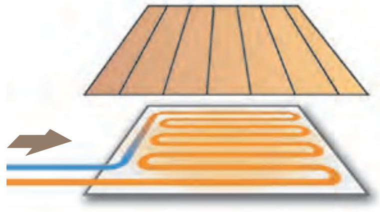
It can be checked whether each unit operates correctly under the set conditions and expected outdoor temperatures when the system is actually assembled.



Outdoor temperatures in the range from −50°C to +50°C can be simulated.

Concrete Floor drying

When underfloor heating is installed, it can be used to dry the concrete surrounding the hot water piping more quickly to shorten the construction period.



Set temperature

Max. 75°C

Set period

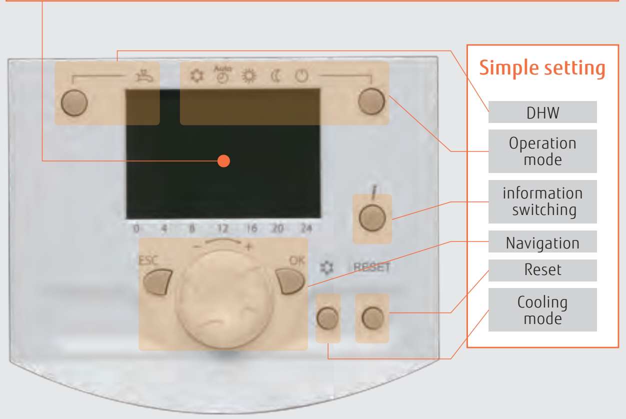
Max. 25 days

Controller features a large LCD display and buttons to make setting functions easy

Large display

Display of all segments operation mode indicate

•Clock •Temperature •DHW •Message •Service/maintenance •Timer menu



Main operation flow and setting contents for installers and end users

		Flow Chart	Example Item
Installers	1	Install Setting	Pump speed setting,Configuration. Heating curve setting, Heat pump shut off
	2	Option Setting	Cooling kit, DHW kit, Boiler kit, Swimming pool kit
	3	Convenient Function	Automatic Heating curve setting, Underfloor controlled driving,Outdoor temperature adjustment, Maintenance period setting
	4	workout Setting	Outdoor temperature simulator
	5	Confirmation	Operation conform (Heating cooling, DHW, option,)
End users	6	User Setting	Date and time, time program, Operation temperature setting

Easy Installation & Maintenance

- All hydraulic safety & controlling components built in, no additional selection required
- Lifting bars for an installation without any difficulty or risk
- Easy access for maintenance operations
- Refrigerant pump down operation

Maintenance Support

Diagnostics function for trouble shooting

Error display

How to know which error has appeared

When an error is occurring

🔔 Error symbol appears on the controller

▼

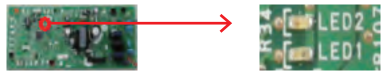
Detailed information will be displayed
- Error code
- Error designation
- Clear text info (UART)

press "Info" button

▼

Hydraulic indoor unit error

When an error is occurring green and red LED flash along with error cause

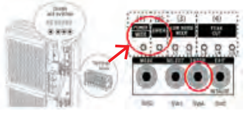


LED2(GEEN)
LED1(RED)

▼

Confirm flashing times

Outdoor unit error



For High Power model and Super High power model

When an error is occurring

POWER MODE : ON

ERROR : Blinks rapidly

▼

Confirm blink code for error code indication

▼

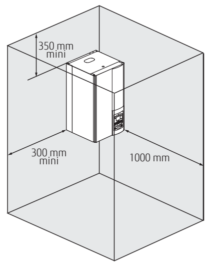
Check the error code table

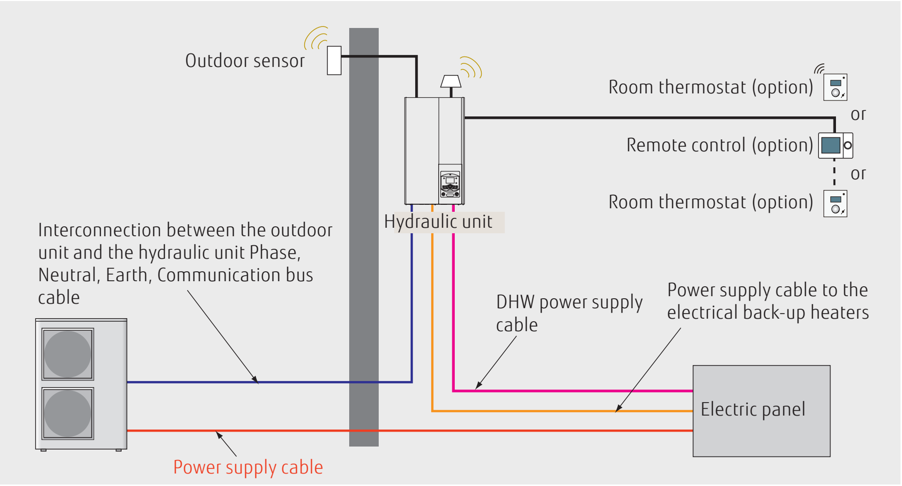
Installation Limitations

Equipment Installation & Electrical Wiring

Split type Hydraulic indoor unit

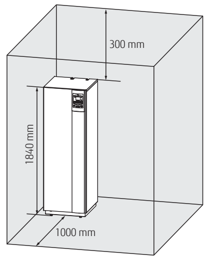
- Hydraulic indoor unit is to be hanged on the wall
- Weight ≦ 88 kg (including water)
- Space for maintenance should be respected

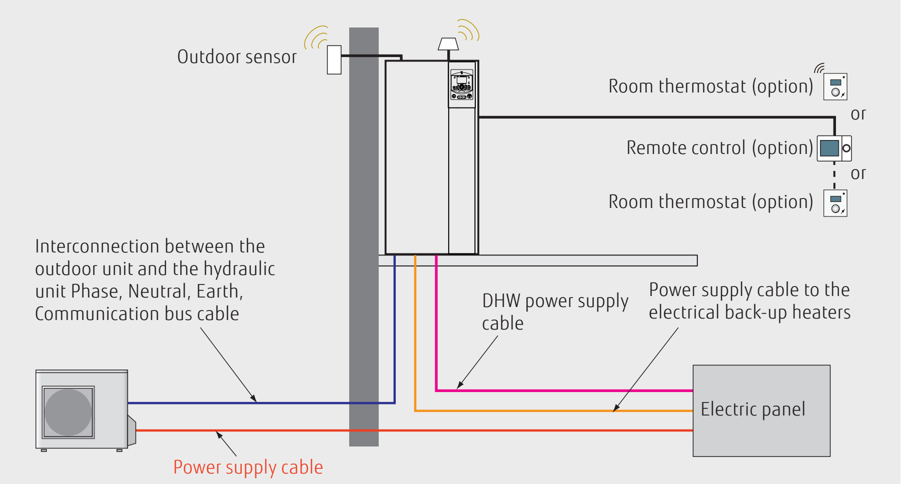




Split DHW integrated type Hydraulic indoor unit

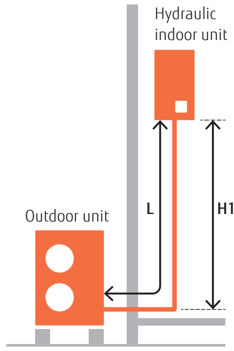
- Floor standing
- Weight ≦ 393 kg (including water)
- Space for maintenance should be respected.

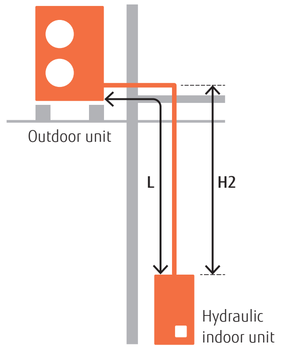


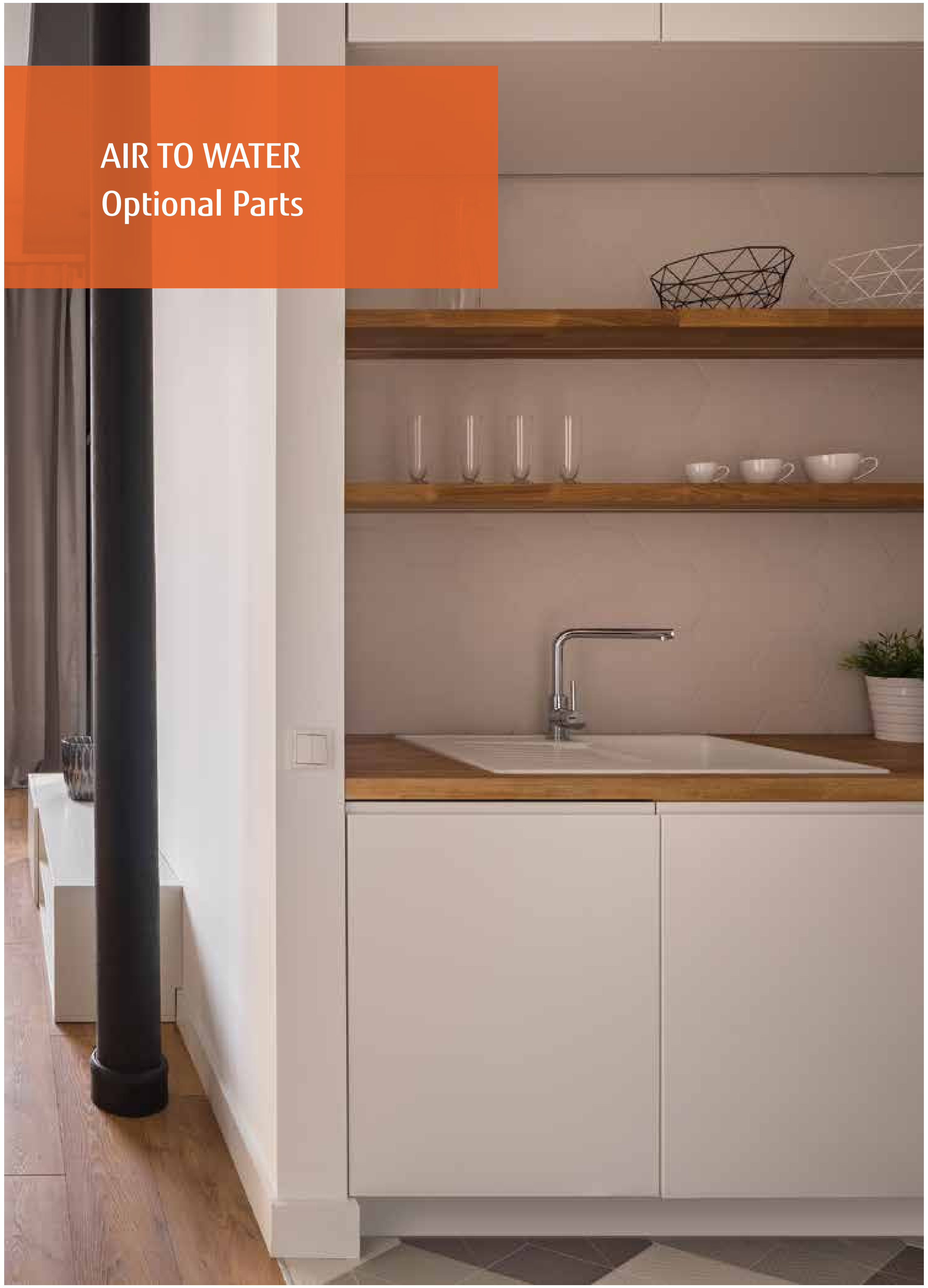


Piping and Wiring Split type

Series	Capacity range (kW)	Pipe diameter (Liquid/Gas) (mm)	H1 (m)	H2 (m)	L (m)
Comfort	5	6.35/12.70	+20	-20	5-30
	6				
	8	6.35/15.88			
	10	9.52/15.88			
High power	11	9.52/15.88	+15	-15	5-20
	14				
	16				
Super High power	15	9.52/15.88	+15	-25	5-30
	16				
	17				

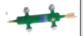






AIR TO WATER
Optional Parts

Optional Parts

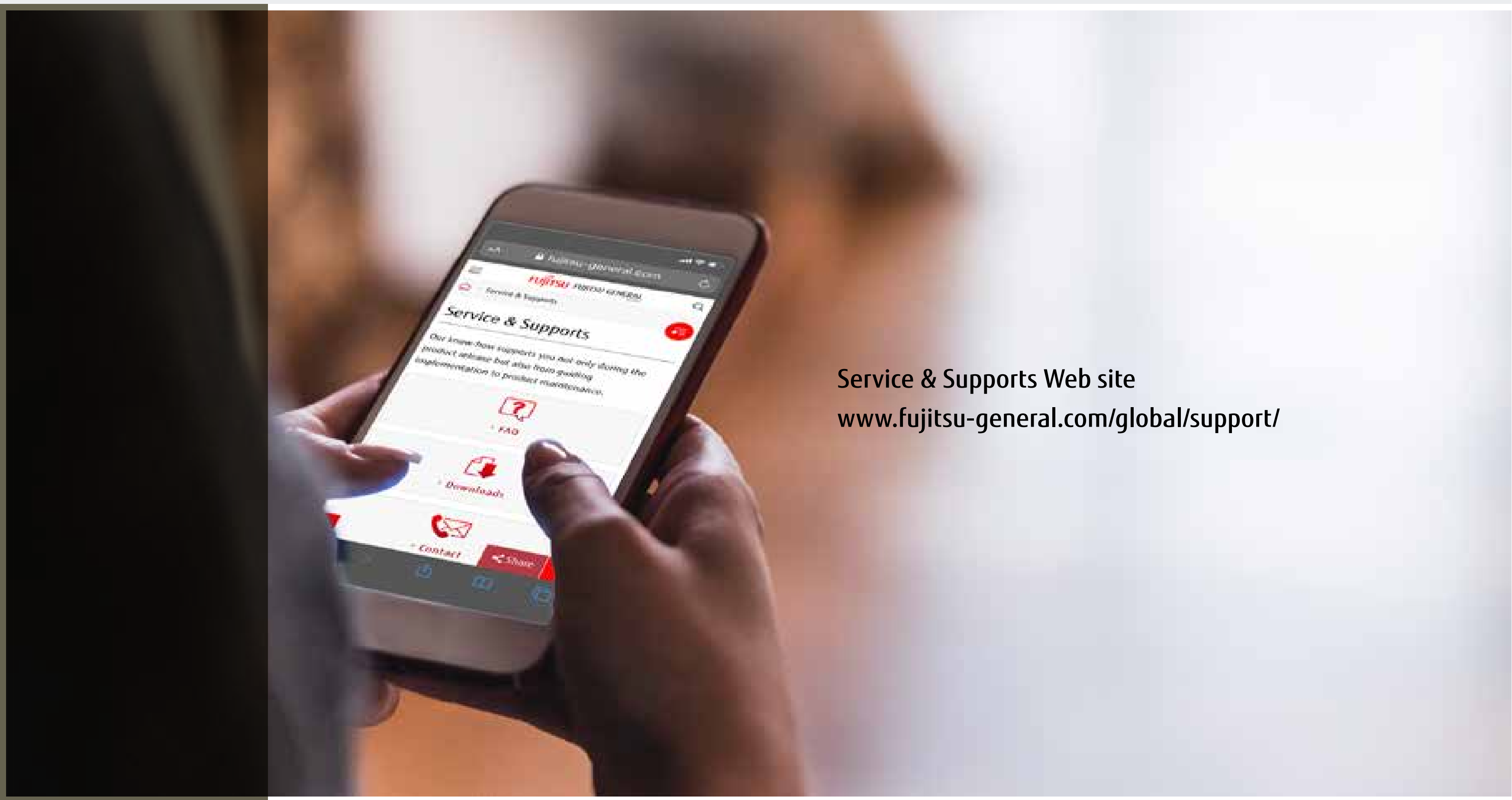
Product Name	Model Name	Split															Split DHW integrated type														
		Super High Power			High Power					R32 Comfort			Comfort				Super High Power			High Power					R32 Comfort			Comfort			
		1Ø	3Ø		1Ø		3Ø			1Ø			1Ø				1Ø	3Ø		1Ø		3Ø			1Ø			1Ø			
		16	15	17	11	14	11	14	16	5	6	8	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8	5	6	8	10
2nd Circuit Kit 	UTW-KZSXE	–	–	–	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KZDXE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	●	●	●	●
	UTW-KZSXJ	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KZDXJ	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
Boiler Connection Kit 	UTW-KBSXD	–	–	–	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KBDXD	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	●	●	●	●
WH 	UTW-KBSXJ	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DUO 		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
Balancing Vessel 	UTW-TEVXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DHW Kit 	UTW-KDWXD (External)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1
DHW Tank 200 Liter 300 Liter 	UTW-T20AXH UTW-T30AXH	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1
200 Liter 300 Liter 	UTW-T20BXH UTW-T30BXH	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1	–*1
DHW expansion kit 	UTW-KDEXE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	–	–	–	●	●	●	●
	UTW-KDEXL	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
Circulating Pump 	UTW-PHFXG	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–
Swimming Pool Kit 	UTW-KSPXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Exchanger for Swimming Pool Kit 	UTW-ESPXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Kit 	UTW-KCLXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	–	●	●	●	●
	UTW-KCLXL	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
Low Noise Kit 	UTW-KLNXE	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–
Regulation Extension Kit 	UTW-KREXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Product Name	Model Name	Split															Split DHW integrated type														
		Super High Power			High Power					R32 Comfort			Comfort				Super High Power			High Power					R32 Comfort			Comfort			
		1Ø	3Ø		1Ø		3Ø			1Ø			1Ø				1Ø	3Ø		1Ø		3Ø			1Ø			1Ø			
		16	15	17	11	14	11	14	16	5	6	8	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8	5	6	8	10
Drain Pan 	UTW-KDPXA	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–
	UTW-KDPXB	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
Cascade Master Kit (incl. LPB Clip) 	UTW-KCMXE	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Cascade Slave Kit (incl. LPB Clip) 	UTW-KCSXE	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
HMI Kit 	UTW-KHMXE*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Controller Wired 	UTW-C74TXF*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	UTW-C74HXF*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Room Thermostat Wired 	UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wireless 	UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor Sensor Transmitter 	UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RF Modules for BSB-Port 	UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Web Server 	UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LPB Clip 	UTW-KL1XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MODBUS Clip 	UTW-KMBXJ	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7	●*7
Service Tool (incl. OCI700 Adapter) 	UTW-KSTXD	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5
Service Tool Software 	UTW-KPSXD	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6
External Connect Kit 	UTY-XWZXZ2	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–
	UTY-XWZXZ3	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
Back-up Heater kit 	UTW-KBHXL	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–

● : Available – : Not Available

*1: DHW operation is possible without DHW Kit and DHW Tank.
*3: 19 Languages included, no separate Eastern European RC necessary. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humidity sensor
*4: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)
*5: UTW-KL1XD is required for the connection.
*6: UTW-KW1XD or UTW-KW4XD is required for the connection.
*7: Additional optional parts necessary.

SUPPORT



Service & Supports Web site
www.fujitsu-general.com/global/support/

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

Category	Information Material												Tool					
	Product Sales Training Material	Product Technical Training Material	Product news	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	WATERSTAGE™ Package label creator	Design Simulator (Room air conditioner, Packaged air conditioner, VRF)	WATERSTAGE™ proposer	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	●	●																
Product Information Seek			●	●	●	●	●											
Technical Information Seek							●	●					●					
Model Selection							●							●	●			
Design							●		●	●								
Verification																●		
Installation							●				●							
After sales and Service												●					●	●

AIRSTAGE™ Support

Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities.
We provide a wide range of support to maintain high quality from design to installation.

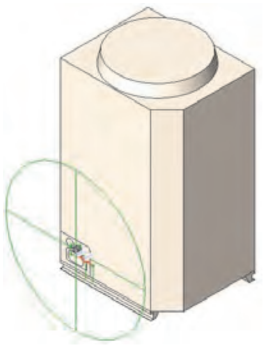
Training facilities

Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

Features

- Design & Technical Manual
- Model Selection & Estimation
- Certificate Data
- 2D/3D CAD Data



2D/3D CAD Data

Product information

New product information is provided in the form of documents and movies for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

Features

- Product News
- Brochures & All Manuals
- Feature Promotion Movie

AIRSTAGE™ (VRF Systems)

Catalogue

PRODUCT CATALOGUE 2018

Option

PRODUCT NEWS

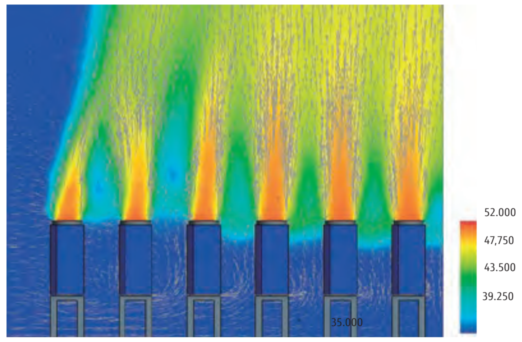
www.fujitsu-general.com/uk/support/downloads/vrf/

Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

Features

- CFD Simulation
- Guide line
- Commissioning Support



CFD Simulation

Commissioning Support

Fujitsu General has many training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

Features

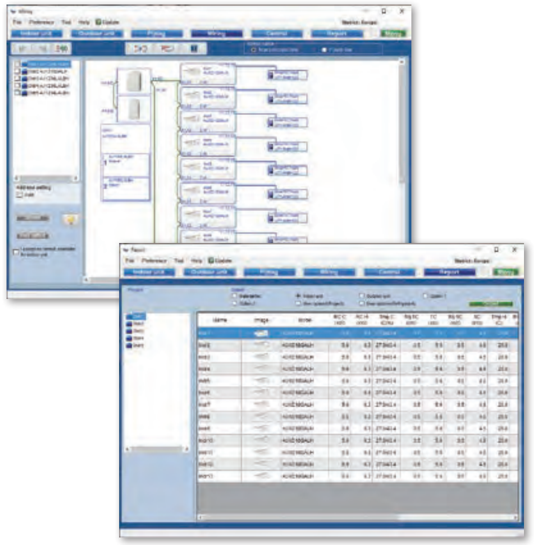
- Designing AIRSTAGE™ Systems
- Control System on-site training

1 Head Office Training Center: Japan
2 China Training Center: China
3 Asia Training Center: Singapore
4 Europe Training Center: U.K.
5 Europe Training Center: Germany
6 America Training Center: U.S.A.
7 Middle East Training Center: UAE
8 Oceania Training Center: Australia

AIRSTAGE™/RAC Support Tool

Put the charts and pens away and design your projects on your computer with ease using the Design Simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program’s built-in features.
Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it’ll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

Design Simulator



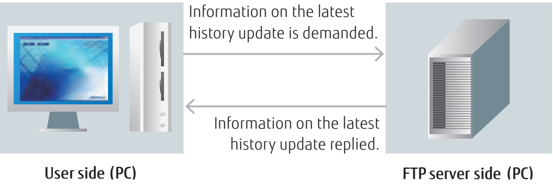
Automatically create model selection information

- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
- It is also easy to set the remote controller groups, central controller and converters.
- The equipment list including the equipment information is created automatically.

Output the format that matches the application

The information specific to your project can be exported in a number of industry standard file formats.

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- 2D CAD data (DXF)



Update your Design Simulator

Database can be easily updated online using AutoUpdate function through FTP.

NEW

BIM Building Information Modeling

bimobject®
www.bimobject.com/en

The World's Leading BIM Content Platform

Go to search bar and key in the brand name FUJITSU GENERAL to search the products

BIM files of Fujitsu General’s products available on BIMobject®

We are pleased to inform that Fujitsu General has released BIM files of products on BIMobject®’s website (BIMobject.com).

Outline of BIMobject
BIMobject® is a game changer for the construction industry, offering development,
maintenance, and syndication of objects on the world's biggest BIM platform.

About the BIM file

- BIM files are Autodesk Revit 2018 version.
- Each of the BIM files has different refrigerant and drain piping connector location.
- Each of the BIM file includes several family types.
- Revit file type catalog (Specification) is available for every product.

RFA (Revit data)
Data format available for BIM-designed projects.

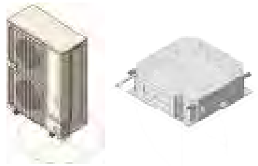
Data content
- Shape (Size)
- Drain direction
- Piping direction
- Power source location
- Specifications etc.

Type catalog (specifications of product)

DWG
Standard data available for Autodesk’s products.

DXF
Intermediate data generally available for CAD products.

Data content
- Shape (Size)

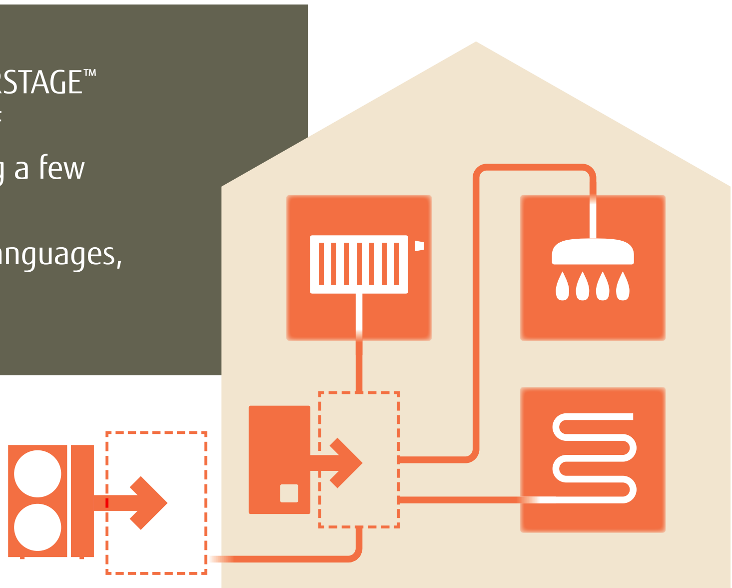


*How to use the BIM files please refer to Instruction video on each product page.

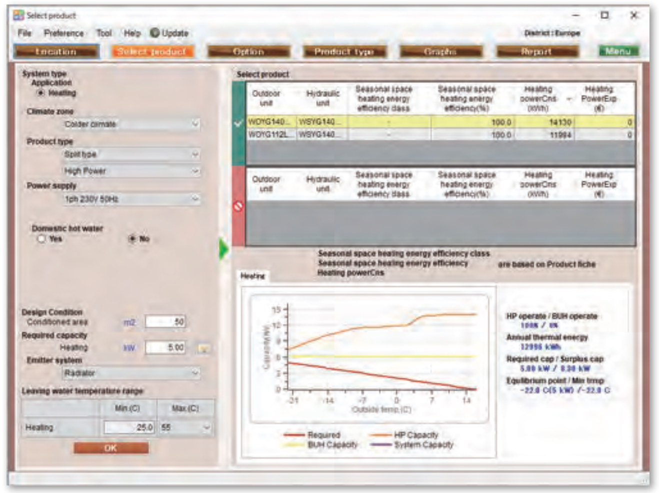
youtu.be/wfL-hwFQ7dM

WATERSTAGE™ Support Tool

Fujitsu General's software for the WATERSTAGE™ automatically provides a combination of WATERSTAGE™ equipments just by giving a few parameters.
The software is featured with multiple languages, and automatic update function.



WATERSTAGE™ Proposer



System type
Application
● Heating
Climate zone
Colder climate
Product type
Split type
High Power
Power supply
1ph 230V 50Hz
Domestic hot water
○ Yes ● No
Design Condition
Conditioned area m2 50
Required capacity
Heating kW 5.00
Emitter system
Radiator
Leaving water temperature range

	Min.(C)	Max.(C)
Heating	25.0	55

Select product

Outdoor unit	Hydraulic unit	Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency(%)	Heating powerCns (kWh)	Heating PowerExp (€)
WOYG140...	WSYG140...	-	100.0	14130	0
WOYG112L...	WSYG140...	-	100.0	11984	0

Outdoor unit	Hydraulic unit	Seasonal space heating energy efficiency class	Seasonal space heating energy efficiency(%)	Heating powerCns (kWh)	Heating PowerExp (€)

Seasonal space heating energy efficiency class
Seasonal space heating energy efficiency
Heating powerCns
are based on Product fiche

HP operate / BUH operate
100% / 0%
Annual thermal energy
12995 kWh
Required cap / Surplus cap
5.00 kW / 8.30 kW
Equilibrium point / Min tmp
-22.0 C(5 kW) /-22.0 C

Model selection with detailed technical information

- The software automatically selects the equipments just by inputting some factors, like the region where the equipment is installed, required capacity to heat up the space, and a heating method.

The visible images of the optional items enable the correct configuration of the systems. All of the associated optional items are automatically chosen in a case the application requires several devices of the WATERSTAGE™ equipments.

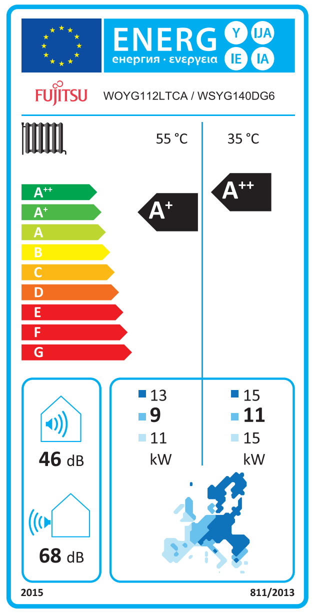
The entire system configuration can be reviewed and modified once the units are selected.
And by seeing the images and the list of equipments at the same time, it avoids mistake in the selection of equipments.

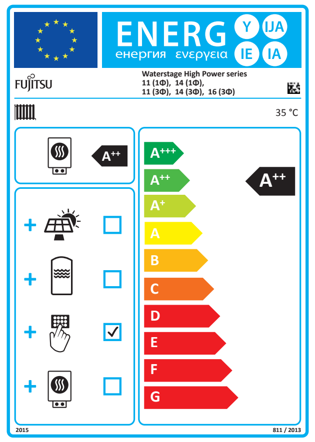
WATERSTAGE™ Package label creator

Energy labels and Fiches can be downloaded from our homepage

You can find and download the ErP documents (energy labels, product fiches, pre-configured package labels, pre-configured package fiches, information sheets and EC Declaration) from our homepage.

In addition, we will provide an internet service to allow the various package labels and package fiches to be created easily by installers in the future.





Quick Service & Maintenance

If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.

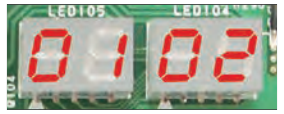
Easy maintenance & monitoring

Design for easy maintenance

The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen.
The unit status can be checked rapidly and quick response is also possible.

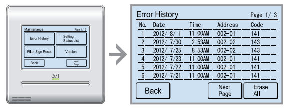
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.

7-Segment LED



Wired Remote Controller (Touch panel)

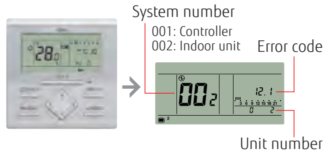
Error status/Error history



Error History Page 1/ 3

No.	Date	Time	Address	Code
1	2012/ 8/ 1	11:00AM	002-01	141
2	2012/ 7/30	2:53AM	002-02	143
3	2012/ 7/25	8:53AM	002-02	143
4	2012/ 7/23	11:00AM	002-01	141
5	2012/ 7/22	11:00AM	002-01	141
6	2012/ 7/21	11:00AM	002-01	141

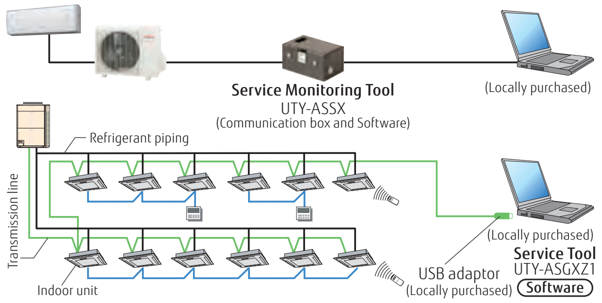
Wired Remote Controller



Error diagnosis by Service Tool

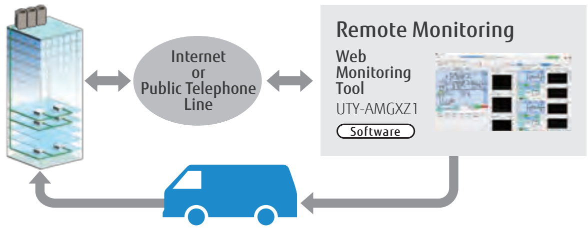
The unit status details from single split models to VRF system can be checked on PC screen by connecting Service Tool.
Quick countermeasures can be taken

- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc.
Rapid cooperation with the service personnel are also possible.



Mobile Troubleshooting Tool for iPhone & Android

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products and Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (Room air conditioner / Packaged air conditioner, VRF, ATW, "FGLair", R32 calculation of allowable refrigerant capacity)

It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.

Mobile Technician FREE

Indoor unit room temp thermistor error

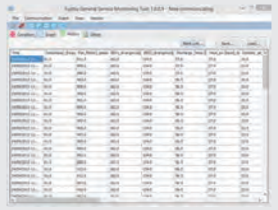
Note:Conversion is approximate.

Service Monitoring Tool for Single Split, Multi-split & Air to Water

- Quick overview about temperature sensor readings and controlled parts like EEV, Fan, Compressor and so on.
- It is not easy to judge the point. So it would be better to delete it.
- Visualization of protection operation
- Helpful for intermittent troubleshooting
- Proof of normal operation for the customer during periodical maintenance.

Actual operating condition display

Graph display



Operation history display

	UTY-ASSX
Dimensions (H×W×D) (mm)	60 x 160 x 160
Weight (g)	500

Service Tool

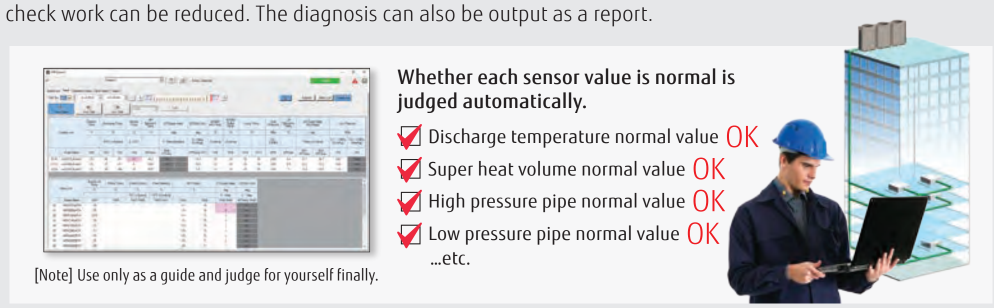
Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
  - UTR-YSTB/UTR-YSTC (Service Tool)
  - UTR-YMSA (Web Monitoring Tool)

Automatic operation check for refrigeration cycle

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output as a report.



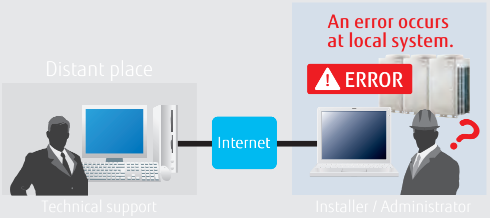
Whether each sensor value is normal is judged automatically.

☑ Discharge temperature normal value OK
☑ Super heat volume normal value OK
☑ High pressure pipe normal value OK
☑ Low pressure pipe normal value OK
…etc.

[Note] Use only as a guide and judge for yourself finally.

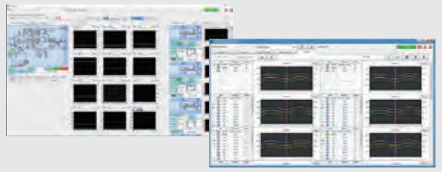
Remote technical support & maintenance

On-site check screen can be shared with the skilled person in a distant place. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.



Various trend graph display

Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.



Personal computer system requirements

	UTY-ASGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port for U10 USB Network Interface and Software protection key
Software	Internet Explorer® 11 or Microsoft Edge

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

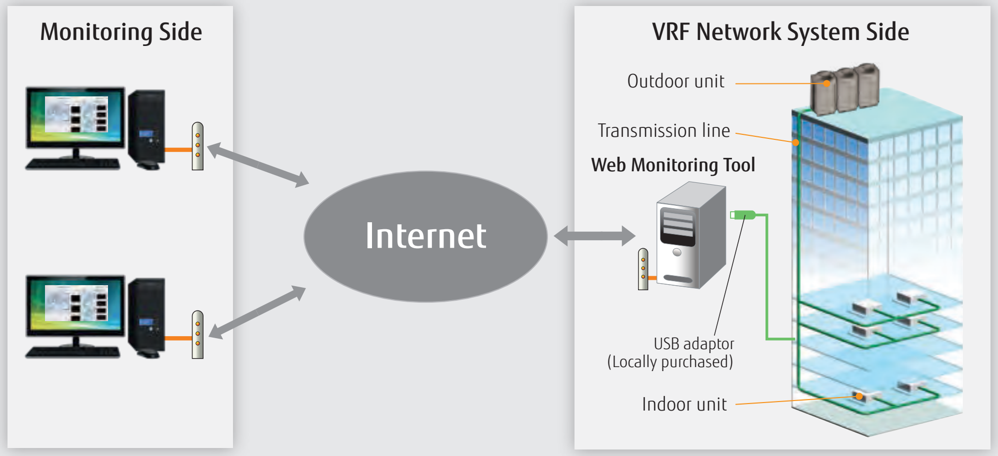
Web Monitoring Tool

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

*1: Use of internet mail system required.

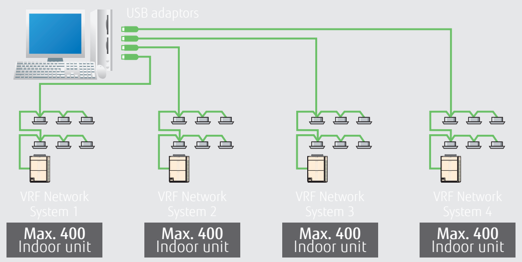
Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.



Personal computer system requirements

	UTY-AMGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: - Public Telephone Line: Modem is required - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.))